STRUCTURAL QUANTITY SURVEY AND MARGINAL ESTIMATE

DS-D 0019 (REV. 02/11/08)

QUANTITIES BY DATE

R. Washington / S. Morimoto 5/14/2012

														., 61 101011111616	
CHARGE	EXPENDITURE AUTHORIZATION	BRIDGE NUMBI					LE	NGTH					CHECK	(ED BY	DATE
6	06-2HT201	X	EFIS	0612000329-1								G	i. Reyes-Gutie	errez/ R. Melko	05/14/12
	BRIDGE						W	/IDTH	LON	NG SPAN	SPANS		REVIS	ED BY	DATE
	Retaining Wall #2,4,6							na		na	na		S. Mo	rimoto	05/30/12
DISTRICT	COUNTY		ROUTE	PI	Л	TYPE	D	EPTH	,	SKEW	DESIGN SECT	ION	APPRO	VED BY	DATE
6	Fre		99		-	Гуре 1 RW		na		na	6				
						7,6-2-1-1-1					LEMENTS-I	Retainin <i>c</i>	,		
			UNIT	SUPE	RSTRUC	TURE	SUE	BSTRUCTUE	RE		Wall 2,4,6	i c caming	TOTALS		
CODE	CONTRACT ITE	MS		QUANTITY			QUANTITY		* USE	QUANTITY		* USE		PRICE	AMOUNT
	STRUCTURE EXCAVATION (RETA	AINING WALL)	CY							2,641	2,671				
	STRUCTURE BACKFILL (RETAIN)	NG WALL)	CY							1,687	-				
	BAR REINFORCING STEEL (RETA		LB							91,841	92,167				
	STRUCTURAL CONCRETE, RETA	INING WALL	CY							702					
	ARCHITECTURAL TREATMENT		SQFT			1				2,494					
	PREPARE AND STAIN CONCRETE	E	SQFT							806					
	MINOR CONCRETE (GUTTER)		LF							240			+ +		
	METAL PICKET RAILING	DTION	LF			1				765 147					
	RETAINING WALL REMOVAL (PO	RTION)	CY							147	143				
													+		
						+									
						+				-			+		
	l					1	<u> </u>					IN	OBILIZATION (%	\$
	LENGTH OF PC PS GIRDER							* ESTIMAT	ING BR	ANCH TO IN	IPUT	—	UB TOTAL-CON		т.
QUANTITY	CUBIC YARDS PCC							-				.	ONTINGENCIE		
PER	POUNDS BAR REINFORCING												UPPLEMENTAL	WORK	
GIRDER	POUNDS PRESTRESS STEEL												OTAL	IDDOSES SAV	\$ ¢
<u> </u>	NUMBER OF GIRDERS											<u> </u>	OR BUDGET P	JRPOSES-SAY	Ψ

CONCRETE SUMMARY

DS-D-0050 (REV. 02/11/08)

Estimating Section to Forward to RE Pending File

STRUCTURE		BRIDGE NUMBER		DISTRICT	COUNTY	ROUTE	CALCULATED BY	CHECK	KED BY
Retaining Wall	#2,4,6	Х	06-2HT201	6	Fre	99	R. Washington / S. Morimoto	G. Reyes-Guti	errez/ R. Melko
SUPERSTRUCTURE	ESTIMATE	CHECK	SUBSTRUC	TURE	ESTIMATE	CHECK	RETAINING WALLS	ESTIMATE	CHECK
Top Slab			Abutments				Struct Conc. Retaining Wall	699	700
Overhang									
Bottom Slab									
Bottom Slab Flares									
Girders - Interior									
Girders - Exterior		1	Wingwalls				TOTAL CY (RW)	699	700
Girder Flares									
Fillets							OTHER	ESTIMATE	CHECK
Closure Pour							Approach Slab (Type)		
							Slope Paving		
End Diaphragms			Columns - Pier	S			PEDESTAL	2.78	2.76
Caps									
			TOTAL CY	(SUB)	0	0	TOTAL CY (OTHER)	2.78	2.76
			Footings				BREAKDOW	N BY CONCRETE T	YPES
Hinges								ESTIMATE	CHECK
							Struct Conc. Bridge Footing		
							Struct Concrete Bridge		
							Struct Conc. Retaining Wall	699	700
							Struct Conc., Other	2.78	2.76
TOTAL CY (SUPER)	0	0	FOOTING TO	TAL CY	0	0	TOTAL CY	702	703

SUMMARY-STRUCTURE EXCAVATION AND STRUCTURE BACKFILL

DS-D-0022 (REV. 02/11/08)

		Estin	nating Section	to forward to F	RE Pending File		
	S1	TRUCTURE		BRIDGE NUMBER	DATE		LATED BY
		ng Wall #2,4,6			5/14/2012		orimoto
DISTRICT	COUNTY	ROUTE	EA NUMBER				CKED BY
6	Fre	99	06-2HT201				s-Gutierrez
						,	
			EXCAVATION		E BACKFILL		CKFILL MATERIAL
LOCATI	ON	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK
Retaining Wa	all #2,4,6	2641	2671	1687	1708		
	-						
TOTAL	CY	2641	2671	1687	1708	0	0

STATE OF CALFORNIA-DEPARTMENT OF TRANSPORTATION BAR REINFORCING SUMMARY

BAR SIZE E	5	0	Y CANADA CONTRACTOR	6 Fresno	66	99 Rachel Washington G. Reyes-Gutierrez	ıgton	G. Reyes-Gutierrez
	SUPERSTRUCTURE	UCTURE	SUBSTR	SUBSTRUCTURE	RETAINII	RETAINING WALLS		
	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK
					3 641	3 693		
					39 036	39 341		
					26 091	26 029		
					11 631	11 656		
					1 984	1 988		
					2 658	7 653		
INT DIAPHRAGM								
RAIL								
WALL								
HINGE								
SUBTOTAL					90 040	90 360		
2% SPLICES					1 801	1 807		
TOTAL					91 841	92 167		
TES								

QUANTITIES EA 06-2HT201 RETAINING WALL 2,4,6

High Speed Train

Retaining Wall #2,4,6

Bar Reinforcing Summary

EA: 06-2HT201

Estimator- Rachel Washington

Checker: Gloria Reyes-Gutierrez

STATE OF CALIFORNIA-DEPARTMENT OF TRANSPORTATION BAR REINFORCING SUMMARY

BW 246		BRIDGE NO.	EA	DISTRICT	COUNTY	ROUTE	CALCULATED BY CHECKED BY		CHECKED BY
0,4,0		5			olriesno	88	99 Hachel Washington		G. Reyes-Gutierrez
		SUPERSTR	RUCTURE	SUBSTR	SUBSTRUCTURE	RETAINI	RETAINING WALLS		
B	BAR SIZE	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK
3									
4						3 641	3 693		
5						39 036	39 341		
9						26 091	26 029		
7						11 631	11 656		
8						1 984	1 988		
0						7 658	7 653		
10									
11									
14									
18									
	INT DIAPHRAGM								
	RAIL								
66	WALL								
	HINGE								
SUBTOTAL	7.0					90 040	90 360		
2% SPLICES						1 801	1 807		
TOTAL						91 841	92 167		
NOTES									

BAR REINFORCING CHECK (CONT.)

	ez	The second secon		% DIFFERENCE																
СНЕСКЕВ ВУ	G. Reyes-Gutierrez			CHECK																
				ESTIMATE																
CALCULATED BY	0 Rachel Washington	And the second s	S	% DIFFERENCE		-1.4%	%8.0-	0.5%	-0.5%	-0.5%	0.1%									
EA	0		RETAINING WALLS	CHECK		3 693	39 341	26 029	11 656	1 988	7 653									
BRIDGE NO.	0			ESTIMATE		3 641	39 036	26 091	11 631	1 984	7 658									
STRUCTURE	RW 2,4,6			BAR SIZE												INT DIAPHRAGM	RAIL	WALL	HINGE	
					3	4	5	9	7	8	6	10	11	14	18			66		

Summary (see segments in below sheets)	DS-D 0110 (REV 8/91)									RW	PAGE		OF	11
Summary (see segments in below sheets) Sum No.					nos	IRCE	CHA	RGE	EXPEN	DITURE		SPEC	SPECIAL DES	
Summary (see segments in below sheets)					DIST	TINO	DIST	TINU	AUTHOF	IZATION		WHEN A	WHEN APPLICABLE	
Summary (see segments in below sheets) Summary (see segments in below shee	Retaining Wall # 2				9	3591	9	0		0		06120	0612000239-1	
15a	Retaining Wall # 2 Summary (see segments in belo	w sheets)												
No.								TOTAL	LENGTH - EAC	H SIZE				
Vali Reinforcement Totals	ITEM		LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
Vall Reinforcement Totals 0.0 2622.4 22414.8 11711.9 2284.0 0.0 1349.2 0.0 Vall Reinforcement Totals 0.0 2622 22414.8 11711.9 2284.0 0.0 1349.2 0.0 Lower Set or sizes. 1.043 1.043 1.043 1.043 1.049 0.0 1.349 0.0 Lipound. 1.07AL WI. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.357 0.0 Ipound. 1.07AL WI. PER FOOT 0.376 0.668 1.043 1.562 2.044 2.670 3.400 4.587 0 Ipound. 1.07AL WI. PER FORT 0.376 0.668 1.043 1.552 2.274 4,569 0 4,587 0 Ipound. 1.07AL WI. PER FORT 0.07E IRABERT 0.0458 0.044 2.670 3.400 4,587 0 ONTE 1.048 1.752 23,379 17,591 4,669 0 4,587 <td< td=""><td>Total # of Segments =</td><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Total # of Segments =	10												
Vali Reinforcement Totals 0.0 26224 22414.8 11711.9 2284.0 0.0 1349.2 0.0 Instruction Relationship Instruction														-
in Standard Retaining .use 99 for size. .use 99 for size. .use 99 for size. .use 97 for size. .use 97 for size. .use 98 f	Type 1 Retaining Wall Reinforcement Totals			0.0	2622.4	22414.8	11711.9	2284.0	0.0	1349.2	0.0	0.0	0.0	0.0
In Standard Retaining TOTAL LENGTHS 0 2622 22415 11712 2284 0 1349 0 4.35				Y.										
tound: TOTAL LENGTHS TOTAL WT. PER FOOT TOTAL WT. PER SIZE TOT														
v. use 99 for size. 1. TOTAL LENGTHS 1. TOTAL WT. PER FOOT 1. TOTAL WT. PER SIZE 2. S.3.79 1. T.591 4. 669 0. 4,587 0. A4,587 0. NAME 2. S.29/2012 1. S.29/2012 2. S.3.379 1. S.3.379														
el in Standard Retaining v. use 99 for size. TOTAL LENGTHS O 2622 22415 11712 2284 0 1349 0 1 y 752 23,379 17,591 4,669 0 4,587 0 TOTAL WT. PER SIZE O 1,752 23,379 17,591 4,669 0 4,587 0 TOTAL WT. PER SIZE O 1,752 23,379 17,591 4,669 0 4,587 0 TOTAL WT. PER SIZE O 0 2622 22415 11712 2284 0 1349 0 A 4,587 0 14,587 0														
alin Standard Rotaining v.use 99 for size. rotal WT. PER FOOT rotal WT. PER SHEET rotal W														
In Standard Retaining														
Standard Retaining														
lin Standard Retaining	100													ी
Found. Fig. 1.043 Fig. 1.043 Fig. 1.044 Fig. 1.045 Fig. 1.045 Fig. 1.044 Fig. 1.045 Fig. 1.	, 19.													
TOTAL LENGTHS C 2622 22415 11712 2284 O 1349 O	The second secon													.
elin Standard Retaining TOTAL LENGTHS O 2622 22415 11712 2284 0 1349 0 Lyound: TOTAL WT. PER SIZE O 1,752 23,379 17,591 4,669 0 4,587 0 TOTAL WT. PER SIZE O 1,752 23,379 17,591 4,669 0 4,587 0 TOTAL WT. PER SIZE O 1,752 23,379 17,591 4,669 0 4,587 0 TOTAL WT. PER SIZE O 1,752 23,379 17,591 4,669 0 4,587 0 S/29/2012 S/29/2012 DATE N CASE OF RICHARD MAIRER N DATE														
In Standard Retaining	20													
TOTAL LENGTHS TOTAL LENGTHS O 2622 22415 11712 2284 O 1349 O	7													
1349 1349 1349 1349 1349 1349 1349 1349 1340 1349														
touse 99 for size. WT. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.387 4.504 2.670 3.400 4.387 4.669 0 4,587 0 4,587 0 Ipound. TOTAL WT. PER SHEET 0 1,752 23,379 17,591 4,669 0 4,587 0 DATE REMARKS IN CASE OF STON IN CASE OF STON BUSINESS PHONE NUMBER 0 4,587 0 A,587 0	NOTE: For computing steel in Standard Retaining	TOTAL LENGTH	s	0	2622	22415	11712	2284	0	1349	0	0	0	0
TOTAL WT. PER SIZE 0 1,752 23,379 17,591 4,669 0 4,587 0 0 4,587 0 0 0 0 0 0 0 0 0	Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
TOTAL WT. PER SHEET 0 1,752 23,379 17,591 4,669 0 4,587 0 DATE REMARKS IN CASE OF QUESTION IN CASE OF QUESTION RICHARCH Melko POTE	Show lb/ft to nearest pound.	TOTAL WT. PER	SIZE	0	1,752	23,379	17,591	4,669	0	4,587	0	0	0	0
DATE REMARKS NAME 5/29/2012 IN CASE OF QUESTION Richard Melko DATE CONTACT: BUSINESS PHONE NUMBER DATE		TOTAL WT. PER	SHEET	0	1,752	23,379	17,591	4,669	0	4,587	0	0	0	0
5/29/2012 IN CASE OF Richard Melko QUESTION CONTACT: BUSINESS PHONE NUMBER DATE	ВУ	DATE	REMARKS				NAME						VERIFY	
DATE CONTACT: BUSINESS PHONE NUMBER DATE	Rachel Washington	5/29/2012					Richard M	elko			1			
	CHECK	DAIE					BUSINESS PI	TONE NUMBE	r		DAIE			
5/29/2012 916-227-0721	G. Reyes-Gutierrez	5/29/2012					916-227-07	721			2/58/	5/29/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Fig. 19 Fig.															
Company Comp	DS-D 0110 (HEV 8/91)										A.	PAGE	2	OF	Ξ
Part										EXPEN	IDITURE		SPECI WHEN AF	AL DES	
He 10	Retaining Wall # 2					9	3591	9	0				061200	00239-1	
H = 10	Segment 1								STA 1	1+99.38 to	12+80				
No. Liscation No. Lisc	H= 10			L					TOTA	L LENGTH - EAC	CHSIZE				
E E E E E E E E E E E E E E E E E E E	ПЕМ	SIZE	_	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
C + 16 + 6 + 9 + 1	601E	9	100	15.00				1500.0							
Fige 12	602C #6 @9"	9	54	11.93				644.1							
C (none) 6 4 40.29		ιC	41	8.70			356.7								
45 Geogy. 5 4 40.29 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 6 161.1 174.0 7	603C (none)														
±6.60 yr. 5 54 5.64 327.4 32	- 1	5	4	40.29		1	161.1								
46.01** 6 55 5.95 3.92 3.22.3 3.27.4	- 1	5	54	5.26			284.1								
#5@12** 5 5 5 5 16 40.29		9	55	5.95				327.4							
#5601**	- 1	S	ω	40.29			322.3								
#5612* 8		5	55	3.16			174.0								
Ephtage 18" 5 6 40.29 241.7 A.35 A.37		S	9	40.29			241.7								
Fight Fight <t< td=""><td>S</td><td>υ</td><td>9</td><td>40.29</td><td></td><td></td><td>241.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	S	υ	9	40.29			241.7								
Fig. 10 Fig.	405T #4@18"	4	9	40.29		241.7									
PP P															
Fig. 10 Fig.	0														
Fig. 1 Fig. 2 Fig. 3 F	2 7	ις	9	7.25			43.5								
TOTAL LENGTHS TOTAL LENGTHS TOTAL LENGTHS TOTAL LENGTHS TOTAL LENGTHS TOTAL LENGTHS TOTAL WIT, PER FOOT TOTAL WIT, PER SIZE TOTAL WIT,		5	9	9.99			0.09								
Avail from the charts, use 99 for size. WT. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.303 5.313 7.650 Show lb/fit to nearest pound. TOTAL WT. PER SIZE 0 161 1,966 3,712 0 <t< td=""><td>NOTE: For computing steel in Standard Retaining</td><td>TOTA</td><td>LENGTH</td><td>s</td><td>0</td><td>242</td><td>1885</td><td>2471</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	NOTE: For computing steel in Standard Retaining	TOTA	LENGTH	s	0	242	1885	2471	0	0	0	0	0	0	0
Show lb/lt to nearest pound. TOTAL WT. PER SIZE 0 161 1,966 3,712 0	Wall from the charts, use 99 for size.	WT. P	ER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
cohel Washington 5/29/2012 REAR 6 161 1,966 3,712 0	Show lb/ft to nearest pound.	TOTAL	. WT. PER	SIZE	0	161	1,966	3,712	0	0	0	0	0	0	0
Ichel Washington 5/29/2012 Remarks IN CASE OF QUESTION Richard Melko Pare Pare Reyes-Guttierrez 5/29/2012 5/29/2012 4/29/2012 5/29/2012 5/29/2012		TOTAL	- WT. PER	SHEET	0	161	1,966	3,712	0	0	0	0	0	0	0
S/29/2012 N CASE OF Richard Melko DATE CONTACT: CONTACT: 5/29/2012 S/29/2012 DATE DATE	ВУ	DATE		REMARKS				NAME						VERIFY	
DATE CONTACT: BUSINESS PHONE NUMBER DATE 5/29/2012 916-227-0721	Rachel Washington	5/5	9/2012				IN CASE OF		lelko						
5/29/2012	CHECK	DATE					CONTACT:		HONE NUMBE	Œ		DATE			
	G. Reyes-Gutierrez	5/5	9/2012					916-227-0	721			5/29/	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

Deb 0440 /														
										RW	PAGE		3 OF	=
, O.					SO	SOURCE	CH.	CHARGE	EXPE	EXPENDITURE		SPEC	SPECIAL DES	
Retaining Wall # 2					9	3591	9	0	AUTHO	AUTHORIZATION 0		WHEN A 06120	WHEN APPLICABLE 0612000239-1	
Segment 2								STA	STA 12+40 to 12+80	12+80				
H= 12								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	Ŏ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 ON	No 10	No 11	No 14	N ₂ 18
60 1E														
602C #6 @9"	9	54	13.10				9.707							
501 #5@12"	S	40	9.67			386.7								
60 3C (none)														
502, #5 Tot 4	Ω	4	39.67			158.7								
£63: #5@3"	5	54	5.81			313.7								
604D #6@9"	9	54	6.50				350.9							
504 #5@12"	2	10	39.67			396.7								
505 #5@9"	5	54	3.33			179.8								
18 506 #5@12"	S	9	39.67			238.0								
50 6S #5@18 "	5	9	39.67			238.0								
405T #4@18"	4	9	39.67		238.0									
			24											
STEP														
507	2	8	8.00			64.0								
508	S	7	11.33			79.3								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS	S	0	238	2055	1059	0	0	0	0	0	0	,
Wall from the charts, use 99 for size.	WT. PI	WT. PER FOOT	545	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	159	2,143	1,590	0	0	0	0	0	0	•
	TOTAL	TOTAL WT. PER SHEET	SHEET	0	159	2,143	1,590	0	0	0	0	0	0	•
N. A. S.	DATE		REMARKS				NAME						VERIFY	
Rachel Washington	5/2	5/29/2012				IN CASE OF	Richard Melko	elko						
CHECK	DATE					CONTACT:	BUSINESS PH	IONE NUMBE	æ		DATE			
G. Reyes-Gutierrez	2/5	5/29/2012					916-227-0721	721			5/29/2012	2012		

											100		5	
					SOI	SOURCE	CH	CHARGE	EXPER	EXPENDITURE		SPECI	SPECIAL DES	
					DIST	FIND	DIST	TINO	AUTHO	AUTHORIZATION		WHEN AF	WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0		0		061200	0612000239-1	
Srigment 3								STA	STA 12+80 to 13+20	13+20				
H= 14		\vdash						TOTA	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM H: 801E	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	0 O	No 10	No 11	No 14	N 0 18
602C #6 @7"	9	69	15.13				1043.6							
501 #5@12"	22	40	11.37			454.8								
60 3C (none)											2			
502 #5 Tot 4	ß	8	39.67			158.7								
503 #5@7"	5	69	6.51			449.1								
604D #6@7"	9 9	69	7.99				551.2							
504 #5@12"	5	12 3	39.67			476.0					+			
100			3.83			264.5								
नेका । 506 #5@12"	2	8	39.67			317.4								
506S #5@18"	2	7 3	39.67			277.7								
405T #4@18"	4	7 3	39.67		277.7									
STEP														
507	5	9	9.25			55.5								
508	ß	7	9.67			67.7								
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	GTHS		0	278	2521	1595	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	TOC		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13,600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	PER SIZE		0	185	2,630	2,395	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	PER SHE	Е	0	185	2,630	2,395	0	0	0	0	0	0	0
ВҮ	DATE	REA	REMARKS				ž						VERIFY	
Bachell-Washington	5/29/2012	12				IN CASE OF QUESTION		Richard Melko			1			
	1.00	Ş				CONTACT:		HONE NUMBE	r		DAIE			
Ci. Heyes-Gullerrez	5/29/2012	12					916-227-0721	721			5/20	5/20/2012		

DS-D 0110 (REV 8/91)										RW	PAGE		5 0F	
					SC	SOURCE	5	CHARGE	EXPE	EXPENDITURE		SPEC	1 2	
					DIST	TINO	DIST	TIND	AUTHC	AUTHORIZATION		WHEN A	WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0		0		06120	0612000239-1	
Segment 4								CTA	STA 12:20 to 12:40	42.40				
H= 14								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
Macini C. ITEM Media 601E	SIZE	Ö	LENGTH	No 3	No 4	No 5	9 oN	No 7	No 8	00 N	No 10	No 11	No 14	81 cN
602C #6 @7"	9	34	15.71				534.1							
501 #5@12"	5	20	11.86			237.1								
603C (none)														
502 #5 Tot 4	2	4	19.67		1	78.7								
503 #5@7"	S	34	6.48			220.3								
604D #6@7"	9	34	7.96				270.6							
504 #5@12"	Ω.	10	19.67			196.7								
505 #5@7"	5	34	3.83			130.3								
506 #5@12"	5	9	19.67			118.0								
506S #5@18"	S	7	19.67			137.7								
405T #4@18"	4	7	19.67		137.7									
100 mm														
STEP														
507	5	9	9.25			55.5								
508	5	7	9.67			67.7								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	138	1242	805	0	0	0	0	0	0	1
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ff to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	92	1,295	1,209	0	0	0	0	0	0	0
>8	TOTAL	TOTAL WT. PER SHEET	SHEET	0	92	1,295	1,209	0	0	0	0	0	0	-0
achel Washington	DATE E/20		REMARKS				NAME						VERIFY	
СНЕСК	DATE	DATE				CONTACT	BUSINESS PH	RICHARD MEIKO BUSINESS PHONE NUMBER	8		DATE			
G. Reyes-Gutierrez	5/56	5/29/2012					916-227-0721	721			5/29/2012	2012		

DS-D 0110 (REV 8/91)										W	ם		L C	
3 K					5	aballos	-	1004			ראטני		5	
					DIST	UNIT	DIST	CHANGE	AUTHO	EXPENDITURE AUTHORIZATION		SPEC WHEN A	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0		0		06120	0612000239-1	
Segment 5								STA	STA 13+40 to 13+60	13+60				
H= 14								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	N 18
60 1E														
602C #6 @7"	9	34	16.84				572.4							
501 #5@12"	5	20	12.76		- 20	255.1								
603 C (none)				į.										
502. #5 Tot 4	5	4	19.67			78.7								
533 #5@7"	ω	34	6.44			219.0								
# @ 40 # @ 40	9	34	7.75				263.6							
504 #5@12"	5	10	19.67			196.7								
505 #5@7"	5	34	3.83			130.3								
506 #5@12"	5	9	19.67			118.0								
50 6S #5@18 "	5	8	19.67			157.4								
405T #4@18"	4	8	19.67		157.4									
- 1														
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	157	1155	836	0	0	0	0	0	0	
Wall from the charts, use 99 for size.	WT. PER FOOT	R FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show Ib/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	IZE	0	105	1,205	1,256	0	0	0	0	0	0	•
	TOTAL	TOTAL WT. PER SHEET	HEET	0	105	1,205	1,256	0	0	0	0	0	0	-5
λg	DATE		REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	/2012				IN CASE OF	Richard Melko	elko						
CHECK	DATE						BUSINESS PHONE NUMBER	ONE NUMBE	c		DATE			
G. Reyes-Gutierrez	5/29	5/29/2012					916-227-0721	.21			5/29/2012	2012		

0.00 O100 (001)										i				
										M.	PAGE	7	PF	=
					DIST	SOURCE	DIST	CHARGE	AUTHO	EXPENDITURE AUTHORIZATION		SPECI. WHEN AP	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0				061200	0612000239-1	
Segment 6								STA	STA 13±60 to 13±80	13.80				-
H= 16	L							TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	N 18
60 1E														
702C #7 @6"	7	50	16.58					331.5						
501 #5@12"	Ŋ	50	12.05			240.9								
703C Short c bars	7	20	11.62					232.3						
502 #5 Tot 4	ω	4	19.67			78.7								
503 #5@6"	വ	40	7.14			285.5								
"9®6# Gv03	6	40	8.45							337.9				
504 #5@12"	5	12	19.67			236.0								
505 #5@9"	ß	40	4.33			173.2								
Fie #5@12"	Ω	80	19.67			157.4								
506S #5@18" Zone 1	2	4	19.67			78.7								
506S #5@12" Zone 2	2	9	19.67			118.0								
405T #4@18"	4	80	19.67		157.4									
STEP														
507	5	9	10.42			62.5								
508	2	80	10.67			85.4								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	157	1516	0	564	0	338	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13 600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	105	1,581	0	1,152	0	1,149	0	0	0	0
	TOTAL	TOTAL WT. PER SHEET	SHEET	0	105	1,581	0	1,152	0	1,149	0	0	0	•
e de la companya de l	DATE		REMARKS				NAME						VERIFY	
Sachel Washington	5/56	5/29/2012				IN CASE OF	Richard Melko	elko						
Cieck	DATE						BUSINESS PH	IONE NUMBEI	œ		DATE			
G. Reyes-Gutierrez	5/58	5/29/2012					916-227-0721	721			5/29/2012	2012		

DS-D 0110 (REV 8/91)										RW	PAGE	8	8 OF	11
					sos	SOURCE	CH	CHARGE	EXPE	EXPENDITURE		SPEC	SPECIAL DES	
					DIST	TIND	DIST	LIND	AUTHO	AUTHORIZATION		WHEN A	WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0		0		06120	0612000239-1	
S≒gment 7								STA	STA 13+80 to 14+40	14+40				
₩.: H= 16	_							TOTA	TOTAL LENGTH - EACH SIZE	CH SIZE				
17EM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	0 ON	No 10	No 11	No 14	No 18
601 E														
	^	9	17.04					1022.1						
501 #5@12"	2	09	12.49			749.2								
703C Short c bars	7	8	11.64					698.1						
502 #5 Tot 4	Ŋ	4	59.67		-	238.7								
503 #5@6"	S	120	7.12			854.2			SC-10-					
904D #9@6"	6	120	8.43							1011.4				
504 #5@12"	ß	12	59.67			716.0								
505 #5@9"	5	120	4.33			519.6								
506 #5@12"	ည	80	59.67			477.4								
885S #5@18" Zone 1	2	4	59.67			238.7								
506S #5@12" Zone 2	5	9	59.67			358.0								
405T #4@18"	4	∞	59.67		477.4									
STEP														
507	Ŋ	9	10.42			62.5								
508	ιΩ	ω	9.35			74.8								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	477	4289	0	1720	0	1011	0	0	0	
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.300
Show Ib/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	319	4,474	0	3,516	0	3,439	0	0	0	-
	TOTAL	TOTAL WT. PER SHEET	SHEET	0	319	4,474	0	3,516	0	3,439	0	0	0	ت
ВУ	DATE		REMARKS				NAME						VERIFY	
Rachel Washington	5/58	5/29/2012				IN CASE OF	Richard Melko	elko						
CHECK	DATE						BUSINESS PH	IONE NUMBE	«		DATE			
G. heyes-Gutierrez	2/5	5/29/2012					916-227-0721	21			2/29/	5/29/2012		

DS-D 0110 (REV 8/91)										W	PAGE		u c	
					S	SOURCE	3	ABOR	1022	Total Park			5	
					DIST	UNIT	DIST	UNIT	AUTHO	EXPENDITURE AUTHORIZATION		SPEC	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0		0		06120	0612000239-1	
Segment 8								AT2	STA 14.40 to 15.00	9				
H= 14								101	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	Ŏ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
601 E														
602C #6 @7"	9	103	15.47				1593.6							
501 #5@12"	ß	9	11.47			688.2								
603C (none)														
502 #5 Tot 4	2	4	59.67			238.7								
503 #5@7"	S	103	6.49			6.899								
604D #6@7"	9	103	7.80				803.8							
504 #5@12"	5	12	59.67			716.0								
505 #5@7"	5	103	3.83			394.8								
506 #5@12"	2	8	59.67			477.4								
50 6S #5@18 "	2	7	59.67			417.7								
405T #4@18"	4	7	59.67		417.7									
J 6														
507	ro	∞	9.25			74.0								
508	2	7	10.99			77.0								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS	S	0	418	3753	2397	0	0	0	0	0	0	-
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	279	3,914	3,601	0	0	0	0	0	0	0
>9	TOTAL	TOTAL WT. PER SHEET	SHEET	0	279	3,914	3,601	0	0	0	0	0	0	0
; ;	DATE		REMARKS				NAME						VERIFY	
Rachel Washington снеск	5/29 DATE	5/29/2012 DATE				IN CASE OF QUESTION	Richard Melko	elko			1			
G Boyee Guttorroz	1 9						BUSINESS FR	ONE NOMBE	r		DATE			
d. neyes-duileilez	2/5	5/29/2012					916-227-0721	21			2/58/	5/29/2012		_

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DE. D 0110 (BEV 8/01)										WO				
											PAGE	10	ģ	
8 P. 1					SOU	SOURCE	CHA	CHARGE	AUTHOI	EXPENDITURE AUTHORIZATION		SPECI. WHEN AP	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 2					9	3591	9	0		0		061200	0612000239-1	
Segment 9								STA	STA 14+40 to 15+00	15+00				
H= 14								TOTA	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	9 ON	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
601 E														
602C #6 @7"	9	69	15.67				1081.2							
501 #5@12"	ιΩ	40	11.66			466.3								
60 3C (none)														
502. #5 Tot 4	2	4	39.67			158.7								
593 #5@7"	2	69	6.49			447.5								
604D #6@7"	9	69	7.80				537.9							
504 #5@12"	5	10	39.67			396.7								
505 #5@7"	2	69	3.83			264.5								
506 #5@12"	ഹ	8	39.67			317.4								
50 6S #5@18 "	ഹ	7	39.67			277.7								
405T #4@18"	4	7	39.67		277.7									
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	NGTHS		0	278	2329	1619	0	0	0	0	0	0	C
Wall from the charts, use 99 for size.	WT. PER FOOT	T00-		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13 600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	. PER SI	E E	0	185	2,429	2,432	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	. PER SF	EET	0	185	2,429	2,432	0	0	0	0	0	0	0
984	DATE	Œ	REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	012				IN CASE OF	Richard Melko	elko						
CHECK	DATE						BUSINESS PI	BUSINESS PHONE NUMBER	œ		DATE			
G. Reyes-Gutierrez	5/29/2012	012					916-227-0721	721			5/29/2012	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

ON 94 4 4 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9	13.74 No.3 10.28 34.26 5.78 6.47	6 6 No 4	3591 No 5	DIST	UNIT	AUTHO	EXPENDITURE AUTHORIZATION		WHEN A	SPECIAL DES WHEN APPLICABLE	
aining Wall # 2 ment 10 H= 12 TEM TEM TEM TEM #5 @ 9" #5 @ 12" (none) #5 @ 9" #6 @ 9" #6 @		8 6 No 4	3591 No 5	6 6	DINO 0	AUTHO	RIZATION		WHEN A	PPLICABLE	
#5@12" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9"		9 V	3591 No 5	9	0		•		00100		
#5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9" #5@9"		No 4	No 5			The second second	0		עבופט	0612000239-1	
#5@9"		No 4	No 5		STA 15	STA 15+40 to 15+74.59	5+74.59				e.
TEM SIZE NO. NO.		No 4	No 5		TOTAL	TOTAL LENGTH - EACH SIZE	CH SIZE				
#5@12" 6 46 #5@12" 5 35 C(none) #5Tot 4 5 46 #5@9" 6 46 #5@9" 6 46 #5@12" 6 46	.28 .26 .26 .78			No 6	No 7	No 8	6 oN	No 10	No 11	No 14	Nc 18
#5@12" 5 35 2 (none) #5 Tot 4 #5@9" 5 46 #5@9" 6 46 #5@12" 6 46	.28 .26 .26 .78			632.0							
#5 Tot 4	.26 78 47		359.7								
#5 Tot 4	.26 78 47										
#5@9" 5 46 #5@9" 6 46 #5@9" 5 10	78		137.0								
#5@12" 6 46 #5@12" 5 10	47		266.0								
#5@12" 5 10	90			297.8							
#5@9" 5 46	.20		342.6								
	3.33		153.2								
9 9 9	34.26		205.5								
50 6S #5@18" 5 6 34	34.26		205.5								
405T #4@18" 4 7 34	34.26	239.8									
*											
NOTE: For computing steel in Standard Retaining TOTAL LENGTHS	0	240	1670	930	0	0	0	0	0	0	0
Wall from the charts, use 99 for size. WT. PER FOOT	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.500
Show lb/ft to nearest pound. TOTAL WT. PER SIZE	0	160	1,741	1,397	0	0	0	0	0	0	=
TOTAL WT. PER	0	160	1,741	1,397	0	0	0	0	0	0	3
	IRKS	2		IAME						VERIFY	
Greek Date Date		100	QUESTION	Richard Me	Richard Melko BUSINESS PHONE NUMBER	_		DATE			
		<u> </u>		916-227-0721				06/3	5/20/2012		

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# 2														
## 2					SOUR	CE	CHA	RGE	EXPE	IDITURE		SPECI	AL DES	
1					DIST	UNIT	DIST	TIND	AUTHO	IZATION		WHEN AF	PLICABLE	
The band of the control of the con	etaining Wall # 2				9	3591	9	0		0		061200	00239-1	
Fig. 16 Fig. 17 Fig.	egment 11													
The continue of the continue								TOTA	L LENGTH - EA	H SIZE				
In Standard Reasing 1 TOTAL LENOTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		NO.	+		No 4	No 5	No 6	Vo 7	No 8	6 oN	No 10	No 11	No 14	N 18
In Standard Relativity 1 COTAL LENGTHS 1 COTAL WIT. PER FOOT 1 COT	j1 E													
in Sundard Retaining TOTAL ENGTHS Columb of Line State Columb o)2C													
In Standard Retaining TOTAL LENGTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21													
In Standard Reserving TOTAL LENGTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33C													
In Standard Redailering TOTAL LENGTHS Contract Con	22		-	4										
Fig. 10 Fig.)3													
Standard Retaining)4D													
Fig. 10 Fig	74													
In Standard Relatining	35													
Note 69 for size. Note	96													
el in Standard Heraining TOTAL LENGTHS TOTAL WT. PER SIZE DATE	S9(
In Standard Retaining	5T (2)													
lin Standard Retaining TOTAL LENGTHS O 0 0 0 0 0 0 0 0 0 0 Special Standard Retaining TOTAL WIT PER FOOT TOTAL WIT PER SIZE O 0 0 0 0 0 0 0 0 0 TOTAL WIT PER SIZE O 0 0 0 0 0 0 0 0 0 DATE NAME SIZE SIZE														
elin Standard Retaining TOTAL LENGTHS W.T. PER FOOT TOTAL WT. PER SIZE DATE NO														
lin Standard Retaining	. 4													
In Standard Retaining TOTAL LENGTHS 0														
Lound. TOTAL WT. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.303 5.313 7.650 Pound. TOTAL WT. PER SIZE 0	TE: For computing steel in Standard Retaining	TOTAL LENGTHS		0	0	0	0	0	0	0	0	0	0	С
TOTAL WT. PER SIZE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wall from the charts, use 99 for size.	WT. PER FOOT	o'		899'	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13 600
DATE REMARKS 0	Show lb/ft to nearest pound.	TOTAL WT. PER SIZE		•	0	0	0	0	0	0	0	0	0	0
DATE REMARKS NAME 5/29/2012 IN CASE OF QUESTION QUESTION CONTACT: Richard Melko DATE CONTACT: BUSINESS PHONE NUMBER DATE		TOTAL WT. PER SHE		0	0		0	0	0	0	0		0	0
5/29/2012 IN CASE OF RICHARD Melko DATE QUESTION BUSINESS PHONE NUMBER DATE		DATE REN	IARKS				NAME						VERIFY	
CONTACT: DOSINESS FROM NOMBER	achel Washington	5/29/2012 DATE			<u>₹ 0</u>		Richard M	elko			1			
CTO CTO	G Bayas-Gutterraz	2100/00/1			<u>o</u>									

Ining Wall # 2 ent 12 For computing steel in Standard Retaining To will from the charts, use 99 for size, white to nearest pound. To will Washington To Washington To Washington To Washington To Washington To Washington	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	NOTATION												
1	PEINFORCING STEEL													
2	DS-D 0110 (REV 8/91)									RW	PAGE	13		
1	ets.			SIG	SOURCE			ie UNIT	EXPEN	DITURE		SPEC WHEN A	AL DES	
TOTAL LENGTH Size No.	Retaining Wall # 2			9		161	9	0				06120	00239-1	
1 1 1 1 1 1 1 1 1 1	Segment 12													
In Standard Retaining TOTAL LEMSCHIS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ПЕМ	Ŏ.			-	-	902	TOTAL No 7	LENGTH - EAC No 8	H SIZE No 9	No 10	No 11	No 14	No 18
hi Simplest Prications Proteins and Torina Lengths 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	501E													
In Standard Retaining TOTAL LENGTHS Downwit. TOTAL WITH PER SECTE TOTAL WITH PER SECTE	602C													
In Standard Retaining	001													
In Standard Retaining In S	03 C													
In Standard Retaining	02													
In Standard Retaining	ĘĊ													
	04 D													
In the standard Retaining	04													
In the standard Retaining	05													
No. Standard Retaining TOTAL LENGTHS 0	90													
In Standard Retaining	890													
In Standard Retaining TOTAL LENGTHS Co Co Co Co Co Co Co C	D5T													
In Standard Retaining														
use 99 for size. VT. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.303 5.313 7.650 pound. TOTAL WT. PER SIZE 0														
In Standard Retaining TOTAL LENGTHS 0				-										
use 99 for size. WT. PER FOOT* 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.303 5.313 7.650 pound. TOTAL WT. PER SIZE 0	्र ÖTE: For computing steel in Standard Retaining	TOTAL LENGTHS					0	0	0	0	0	0	0	
pound. TOTAL WT. PER SIZE 0	Wall from the charts, use 99 for size.	WT. PER FOOT	0.3				.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
TOTAL WT. PER SHEET 0	Show lb/ft to nearest pound.	TOTAL WT. PER SIZE					0	0	0	0	0	0	0	0
DATE REMARKS NAME 5/29/2012 IN CASE OF QUESTION DATE RICHARD Melko DATE CONTAGT: BUSINESS PHONE NUMBER DATE		TOTAL WT. PER SHEE			_		0	0	0	0	0	0	0	0
5/29/2012 IN CASE OF OUESTION OUESTION CONTACT: Richard Melko DATE		DATE REN	ARKS				<u></u>						VERIFY	
CONTACT: BUSINESS FROM NUMBER	achel Washington	5/29/2012			IN CAS QUEST		hard Mell	9			1140			
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DS:D 0110 (REV 8/91)									R	PAGE	-	P	4
5.				SOS	SOURCE	OH O	CHARGE	EXPEN	١.		SPECIA	SPECIAL DES	
			2	TSIG	UNIT	DIST	UNIT	AUTHOR	AUTHORIZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 4				9	3591	9	0	Ü	0		0612000239-1	0239-1	
Retaining Wall # 4 Summary (see segments in below sheets)	v sheets)												
							TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
Total # of Segments =		3											
Type 1 Retaining Wall Reinforcement Totals			0.0	1007.0	6895.8	4722.1	0.0	0.0	0.0	0.0	0.0	0.0	0:0
ı,													
19.													
95													
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	HS	0	1007	9689	4722	0	0	0	0	0	0)
Wall from the charts, use 99 for size.	WT. PER FOOT	_	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	R SIZE	0	673	7,192	7,093	0	0	0	0	0	0	0
7.00	TOTAL WT. PER SHEET	R SHEET	0	673	7,192	7,093	0	0	0	0	0	0	-0
ВУ	DATE	REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012				IN CASE OF	Richard M	Richard Melko						
	DATE					BUSINESS PH	IONE NUMBEI	æ		DATE			
G. Reyes-Gutierrez	5/29/2012					916-227-0721	721			5/29/2012	2012		

Retaining Wall # 4 Segment 1 H= 8 ITEM ITEM 60 LEN 601 #5@12" 6 F 75 12 501 #5@12" 5 F 75 93		SOU	SOURCE	CHARGE	RGE	EXPEN	EXPENDITURE		SPECI	SPECIAL DES	
ining Wall # 4 lent 1 H= 8 ITEM REM 6 6 75 #6@9" 57 77		DIST	FINE								
ining Wall # 4 tent 1 H= 8 ITEM RE @ 9" #6 @ 9" #5 @ 12" SIZE NO. 6 60 75 #5 @ 12" 5 57			OSS	DIST	TIND	AUTHOR	AUTHORIZATION		WHEN AF	WHEN APPLICABLE	
H= 8 ITEM ITEM SIZE NO. 6 60 #6 @9" 6 75 #5@12" 5 57		9	3591	9	0	J	0		061200	0612000239-1	
H= 8 ITEM SIZE NO. #6 @9" 6 60 #5@12" 6 75					STA 1	STA 11+24 to 11+80	11+80				
#6 @9" riem size NO.					TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
#6 @9" 6 60 #5@12" 5 57	LENGTH No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
C #6 @9" 6 75 #5@12" 5 57	15.00			900.0							
#5@12" 5 57	12.57			942.8							
0	9.39		535.1								
603C (none)											
502 #5 Tot 4 55	55.67	1	222.7								
503 #5@9" 5 75 4.	4.98		373.7								
604D #6@9" 6 75 5.	5.67			425.5							
504 #5@12" 5 8 55	55.67		445.4								
5 75	3.08		231.2								
5 6	55.67		334.0								
50 6S # 5@18 " 5 6 55	55.67		334.0								
405T #4@18" 4 6 55	55.67	334.0									
STEP											
507 5 6 6.	6.92		41.5								
508 5 6 10	10.53		63.2								
NOTE: For computing steel in Standard Retaining	0	334	2581	2268	0	0	0	0	0	0	C
Wall from the charts, use 99 for size.	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13,600
Show lb/ft to nearest pound. TOTAL WT. PER SIZE	0	223	2,692	3,407	0	0	0	0	0	0	0
TOTAL WT. PER	ет 0	223	2,692	3,407	0	0	0	0	0	0	-0
DATE	REMARKS			NAME						VERIFY	
			IN CASE OF QUESTION	Richard Melko	iko						
ONE SOC COS				BUSINESS PH	ONE NUMBER			DATE			
G. Heyes-Gutterrez				916-227-0721	21			5/29/2012	2012		

DS-D 0110 (REV 8/91)										RW	PAGE		3 OF	
					SOURCE	CE	H)	CHARGE	EXDE	EXPENDITUBE				
	*				DIST	UNIT	DIST	TINO	АЛТНО	AUTHORIZATION		SPEC WHEN A	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 4					9	3591	9	0		0		06120	0612000239-1	
Segment 2								Y E	9 4	5				
H= 10		H						TOTAL	TOTAL LENGTH - EACH SIZE	12+56 CH SIZE				
ITEM	SIZE	NO.	LENGTH	No 3 N	No 4	No 5	No 6	No 7	No 8	6 ON	No 10	No 11	No 14	No 18
601E	9						0.0							
602C #6 @9"	9	102 15	15.10				1540.4							
501 #5@12"	5 7	76 11	11.66			885.9								
603C (none)														
502 #5 Tot 4	2	4 75	75.67	8		302.7								
503 #5@9"	5 10	102 5.	5.05			515.2	,							
604D #6@9"	6 10	102 5.	5.74				585.6							
504 #5@12"	2	8 75	75.67			605.4								
505 #5@9"	5 10	102 3.	3.16			322.6								
506 #5@12"	2	6 75.	75.67			454.0								
50 6S #5@18 "	5		75.67			605.4								
405T #4@18"	4 8		75.67	9	605.4									
STEP														
507	5	3.44	4	-		20.6								
508	5 6	10.21	21			61.3								
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	THS	0		605	3773	2126	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	TC	0.376		0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	ER SIZE	0	404	10000	3,935	3,193	0	0	0	0	0	0	0
>=	TOTAL WT. PER SHEET	ER SHEET	0	404		3,935	3,193	0	0	0	0	0	0	0
-	DATE	REMARKS	якs				NAME						VERIFY	
Rachel Washington CHECK	5/29/2012 DATE	2			≥ 8	IN CASE OF COUESTION	Richard Melko	elko						
					8		USINESS PH	BUSINESS PHONE NUMBER			DATE			
G. Heyes-Gutterrez	5/29/2012	2			1	0,	916-227-0721	21			5/29/	5/29/2012		_

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION PEINFORCING STEEL

DS-D 0110 (REV 8/91)										Wa	1040			
Ç.					so	SOURCE	2	CHABGE	2002	AATI	PAGE	4	6	4
Ž.					DIST	TINO	DIST	UNIT	AUTHO	AUTHORIZATION		SPECI WHEN A!	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 4					9	3591	9	0		0		061200	0612000239-1	
Segment 3								AT2	STA 12-56 to 12-66	12.66				
1000000								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	o.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	Nc 18
H= 12														
ITEM	SIZE	Ö	LENGTH											
601E	9						0.0							
602C #6 @9"	9	14	17.55				245.7							
501 #5@12"	S	9	13.94		1	139.4								
60gc (none)														
502 #5 Tot 4	5	4	9.67			38.7								
503 #5@9"	3	14	5.63			78.8								
604D #6@9"	9	5	6.32				82.2							
504 #5@12"	5	5	9.67			96.7								
505 #5@9"	5	13	3.33			43.3								
506 #5@12"	2	9	9.67			58.0								
50 6S #5@18"	5	თ	9.67			87.0								
405T #4@18"	4	7	9.67		67.7									
- 1														
1				0	68	542	328	0	0	c	c	c	c	
기				0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13 600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	45	292	493	0	0	0	0	0	0	0
27.TE	TOTAL	WT. PER	TOTAL WT. PER SHEET	0	45	565	493	0	0	0	c	c	c	c
20	DATE	*	REMARKS				NAME			,	,		VERIFY	
Rachel Washington	2/56	5/29/2012				IN CASE OF	Richard Melko	lko						
Care of the care o	DATE						BUSINESS PHONE NUMBER	ONE NUMBE	~		DATE			
G. Reyes-Gutierrez	5/56	5/29/2012					916-227-0721	21			5/29/2012	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

The second secon														
The state of the s					SOL	SOURCE	£	CHARGE	EXPEN	EXPENDITURE		SPECI	SPECIAL DES	
2447					DIST	TINO	DIST	TINU	AUTHOI	AUTHORIZATION		WHEN AF	WHEN APPLICABLE	
Retaining Wall # 4					9	3591	9	0		0		061200	0612000239-1	
Segment 4														
								TOTA	TOTAL LENGTH - EACH SIZE	3H SIZE				
ITEM	SIZE	ON	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	Nc 18
601E		nt. nv.ne35												
602C						21								
501														
e03C														
502														
503														
604D														
504														
505														
508														
Soos														
405T														
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	SNGTHS		0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.300
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	T. PER SI	ZE	0	0	0	0	0	0	0	0	0	0	o
	TOTAL WT. PER SHEET	T. PER SI	HEET	0	0	0	0	0	0	0	0	0	0	0
·6K4	DATE	ш	REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	2012				IN CASE OF		Richard Melko						
CHECK	DATE					CONTACT:		HONE NUMBE	Œ		DATE		07	
G. Reyes-Gutierrez	5/29/2012	210					916-227-0721	721			2/59/	5/29/2012		

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DS-D 0110 (REV 8/91)									RW	PAGE	9	OF	4
				nos	SOURCE	CHA	CHARGE	EXPEN	EXPENDITURE		SPEC	SPECIAL DES	
				DIST	TINU	DIST	TIND	AUTHOF	AUTHORIZATION		WHEN A	WHEN APPLICABLE	
Retaining Wall # 4				9	3591	9	0		0	115-20-2	06120	0612000239-1	
Segment 5													
							TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
- 1	SIZE NO.	LENGTH	No 3	No 4	No 5	9 oN	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
601E													
602 C													
501													
60 3C													
502													
503													
604 D													
504													
505													
506													
5055													
405T													
2 線													
									-64 14				
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	ş	0	0	0	0	0	0	0	0	0	0	-0-
Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.300
Show Ib/It to nearest pound.	TOTAL WT. PER SIZE	R SIZE	0	0	0	0	0	0	0	0	0	0	U
	TOTAL WT. PER SHEET	R SHEET	0	0	0	0	0	0	0	0	0	0	C
ВУ	DATE	REMARKS				NAME					6.	VERIFY	
Rachel Washington CHECK	5/29/2012 DATE				IN CASE OF QUESTION CONTACT:	Richard M BUSINESS PR	Richard Melko BUSINESS PHONE NUMBER	ec		DATE			
G. Reyes-Gutierrez	5/29/2012					916-227-0721	721			2/58/	5/29/2012		-1
2200													

	DS-D 0110 (REV 8/91)										RW	PAGE		7 05	
Fig. 1, 1947 Fig.						os	URCE	ō	HARGE	a A	TOUTION			5	
1										4 E	ORIZATION		SPE	CIAL DES	
SOFE NO ENGITH NO.5 NO.4 NO.5 NO.6 NO.7 NO.8 NO.9 NO.10 NO.11	Retaining Wall # 4					9	3591	9	0		0		0612	000239-1	
150 150	Segment 6														ł
TITUM SSE NO LENGTH NO 3 NO 4 NO 5 NO 7 NO 10 NO 11		-													1
In Sundard Retaining TOTAL LENGTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ITEM	SIZE		LENGTH	No 3	No 4	No.5	S CN	7014	AL LENGTH - E	ACH SIZE				
Standard Retaining	601E						2	200	2	8 ON	60 ON	No 10	No 11	No 14	N 18
tround. Control of the state	602C														
tround thething TOTAL ENGTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	501														
No.	603 C														
No.	502														
tound TOTAL ENGTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	533														
thound the same of the state of	604D														
In Standard Retaining	504														
Figure F	505														
Noting the pairing Noting the pairing the pairing Noting the pairing the pairing the pairing the pairing the pairing Noting the pairing															
He sind and Retaining TOTAL LENGTHS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	506														
Figure 39 for size. WIT PER FOOT TOTAL WIT PER SIZE O	50 6S														
TOTAL LENGTHS TOTAL WT. PER SIZE TOTAL WT. P	405T														
Hound. Control Standard Retaining Control Wile 99 for size Control Wile 90 Contr															
TOTAL LENGTHS Contact	- C														
Figure 39 for size. W.T. PER FOOT TOTAL LENGTHS O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
t pound. TOTAL LENGTHS N.T. PER FOOT TOTAL WT. PER SIZE DATE A	-														
sel in Standard Retaining TOTAL LENGTHS 0															
b. use 99 for size. WT. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.303 5.313 4 pound. TOTAL WT. PER SIZE 0	NOTE: For computing steel in Standard Retaining	TOTAL	ENGTHS		0	0	0	0	0	0	0	c	, c	c	
TOTAL WT. PER SIZE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wall from the charts, use 99 for size.	WT. PE	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7 650	1000
TOTAL WT. PER SHEET 0 0 0 0 0 0 0 0 0	Show lb/ft to nearest pound.	TOTAL	VT. PER S	ZE	0	0	0	0	0	0	0	0	0	000	2.00
DATE REMARKS NAME 5/29/2012 IN CASE OF OUESTION DATE RICHARD Melko 6/29/2012 CONTACT: BUSINESS PHONE NUMBER DATE 5/29/2012 916-227-0721 5/29/2012	AB	TOTAL	VT. PER S	HEET	0	0	0	0	•	c	c	•	•	, ,	, ,
5/29/2012 IN CASE OF QUESTION DATE Richard Melko PATE QUESTION QUESTION GONTAGT: BUSINESS PHONE NUMBER DATE 5/29/2012 916-227-0721 5/29/2012	i	DATE		EMARKS				NAME		,	•	•		VEDICY	2
5/29/2012 BUSINESS PHONE NUMBER DATE 916-227-0721	Rachel Washington	5/29/	2012			= 0	N CASE OF	Richard Me	elko					A COLL	
5/29/2012		DATE				, 0	CONTACT:	BUSINESS PH	HONE NUMBE	œ		DATE			
	G. Reyes-Guilerrez	2/29/	2012				J.	916-227-07	721			2/29/	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION FEINFORCING STEEL

DS-D 0110 (REV 8/91)										RW	PAGE	8	OF	4
34					son	SOURCE	CH/	CHARGE	EXPEN	EXPENDITURE		SPECIA	SPECIAL DES	
					DIST	TINO	DIST	TINU	AUTHO	AUTHORIZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 4					9	3591	9	0		0		0612000239-1	0239-1	
Segment 7														
								TOTA	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 ON	No 10	No 11	No 14	No 18
601E														
602C														
501														
603 C														
502														
5.03														
604 D														
504														
505														
30. 506														
S909														
405T							2							
		, ; ;												
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	GTHS		0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	TOC		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13,600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	PER SIZE		0	0	0	0	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	PER SHE	ET	0	0	0	0	0	0	0	0	0	0	0
BY.	DATE	æ	REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	12				IN CASE OF	Richard M	Richard Melko						
CHECK	DATE					CONTACT:	BUSINESS PI	HONE NUMBE	œ		DATE			
G. Reyes-Gutierrez	5/29/2012	12					916-227-0721	721			5/29/2012	2012		

				-				Section Section	×	PAGE		9 OF	
				6	SOURCE	0	CHARGE	EXF	EXPENDITURE		100	1	
				DIST	TINO	DIST	TINO	AUT	AUTHORIZATION		WHEN	WHEN APPLICABLE	
Retaining Wall # 4				9	3591	9	0	50	0		0612	0612000239-1	
Segment 8													+
ب		-											
ic.	SIZE NO.	LENGTH	No 3	No 4	N. C.	S ON	701	TOTAL LENGTH - EACH SIZE	ACH SIZE		ACC		-
601 E						000	ON	S ON	6 ON	No 10	No 11	No 14	No 18
602 C													
501													1
60 3C													
502													
503													
604D													
504													
505													
506 506													
5068													
405T													
*19													
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	s	0	0	0	0	0	c	c	c		(
Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.31.5	7.650	2000
Show Ib/ft to nearest pound.	TOTAL WT. PER SIZE	SIZE	0	0	0	0	0	0	0	0	0	2	2
X	TOTAL WT. PER SHEET	SHEET	0	0	0	0	0	c	c	•		,	, ,
i <u>i</u>	DATE	REMARKS				NAME			>	>	0	VERIEY	0
Baghel Washington CHECK	5/29/2012				IN CASE OF	Richard Melko	elko						
G. Ravos-Gutjerroz	DAIE				CONTACT:	BUSINESS PH	IONE NUMBE			DATE			
O. Heyes-Guilerrez	5/29/2012					1050 500 910	3						_

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TEIN OPOING STEEL														
US-D 0110 (REV 8/91)										RW	PAGE	10) OF	4
					SO	SOURCE	CH	CHARGE	EXPE	EXPENDITURE		SPEC	SPECIAL DES	
Retaining Wall # 4					9	3591	9	0	OH OH	AUTHORIZATION 0		WHEN A 06120	WHEN APPLICABLE 0612000239-1	
o trampag												188		1
								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
TEM TEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 ON	No 10	No 11	No 14	No 18
601E														
602C														
501														
603C				30.002										
502														10 C
503														
604D														
504														
505														
506														
50 6S														
405T														
21														
o II.														
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	0	0	0	0	0	0	0	0	0	0
70	TOTAL	TOTAL WT. PER SHEET	SHEET	0	0	0	0	0	0	0	0	0	0	0
ÀB	DATE		REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	/2012				IN CASE OF	Richard Melko	elko						
CHECK	DATE						BUSINESS PH	IONE NUMBE	œ		DATE			
G. Reyes-Gutlerrez	5/29	5/29/2012					916-227-0721	.51			5/29/2012	2012		

DS:D 0110 (REV 8/91)										RW	PAGE	11	P.	
					sol	SOURCE	5	CHARGE	EXPE	EXPENDITURE		SPEC	SPECIAL DES	
					DIST	TINO	DIST	UNIT	AUTHO	AUTHORIZATION		WHEN A	WHEN APPLICABLE	
Retaining Wall # 4					9	3591	9	0		0		06120	0612000239-1	
Segment 10														
		L						TOT	TOTAL LENGTH EACH STATE	2000				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	OL ON	No.	No 12	07
601E										2	2		100	00
602C														
501														
603C														
502														
503														
604D														
504														
505														
506														
506S														
405T														
503														
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS	,,	0	0	0	0	0	0	0	0	c	0	
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lofft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	0	0	0	0	0	0	0	0	0	0
BY	TOTAL	VT. PER	TOTAL WT. PER SHEET	0	0	0	0	0	0	0	0	0	0	0
Rachel Washington	DAIE E/OO	0,00	REMARKS				NAME						VERIFY	
СНЕСК	DATE	2012				QUESTION	Richard Melko	elko ONE NI IMBE						
G. Reyes-Gutierrez	2/29/	5/29/2012			<u> </u>	CONTACT:	70 700 910				DAIE			
		1					12/0-/22-016	17			5/29/2012	2012		

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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DS-D 0110 (REV 8/91)									RW	PAGE	5	J. O.	
The control of the	7				00	a de la	2	1004					5	
Total Lengths Size No Eleventh No 3 No 4 No 6 No 6 No 7 No 8 No 10 No				,					AUTHO	NDITURE		SPEC WHEN A	SPECIAL DES WHEN APPLICABLE	
TOTAL ENGINE SIZE NO LENGTH NO 3 NO 4 NO 5 NO 6 NO 7 NO 8 NO 10 NO 10	Retaining Wall # 4				9	3591	9	0		0		06120	0612000239-1	
Size No Length No No No No No No No N	Segment 11													
TITRAK SING LENGTH NO.3 NO.4 NO.5 NO.6 NO.7 NO.6 NO.9 NO.10								TOTA	L LENGTH - EA	CH SIZE				
Make the strategy	ITEM	_	+	4	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	Nc 18
Manufacturing Manufacturin	601 E													
Total Lengths Total WT. PER SIZE Total WT. P	602C													
Total WT. PER FOOT Total	501													
Outside Relations Outs	60 3C													
Order Retaining TOTAL LENGTHS O O O O O O O O O	502													
Order Retaining TOTAL LENGTHS O O O O O O O O O	\$ 50 S													
Advise Advisers	GOSD													
Notation Retaining TOTAL LENGTHS 0 <th< td=""><td>504</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	504													
Total WT. PER SIZE	505													
TOTAL LENGTHS TOTAL LENGTHS TOTAL WT. PER FOOT TOTAL WT. PER SIZE TOTAL WT. PER SIZE TOTAL WT. PER SIZE TOTAL WT. PER SHEET TOTAL WT. PER	र 506													
TOTAL LENGTHS TOTAL LENGTHS TOTAL WT. PER FOOT TOTAL WT. PER SIZE CO CO CO CO CO CO CO C	50 6S													
Index detaining TOTAL LENGTHS 0<	405T													
Incompared Retaining TOTAL LENGTHS 0 <														
Indard Retaining TOTAL LENGTHS 0														
Indard Retaining TOTAL LENGTHS 0														
Indard Retaining TOTAL LENGTHS 0														
for size. WT. PER FOOT 0.376 0.668 1.043 1.502 2.044 2.670 3.400 4.303 TOTAL WT. PER SIZE 0 <td>NOTE: For computing steel in Standard Retaining</td> <td>TOTAL LENGT</td> <td>HS</td> <td>0</td> <td></td>	NOTE: For computing steel in Standard Retaining	TOTAL LENGT	HS	0	0	0	0	0	0	0	0	0	0	
TOTAL WT. PER SIZE 0 0 0 0 0 0 0 0 0	Wall from the charts, use 99 for size.	WT. PER FOO	L	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
TOTAL WT. PER SHEET 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Show lb/ft to nearest pound.	TOTAL WT. PE	R SIZE	0	0	0	0	0	0	0	0	0	0	0
DATE REMARKS NAME		TOTAL WT. PE	R SHEET		0	0	0	0	0	0	0		0	0
5/29/2012 IN CASE OF Richard Melko DATE CONTACT: S/29/2012 S/29/2012 S/29/2012 DATE DATE DATE DATE S/29/2012 DATE	- 543	DATE	REMARKS				NAME						VERIFY	
DATE CONTACT: BUSINESS PHONE NUMBER DATE 5/29/2012 916-227-0721	Rachel Washington	5/29/2012				IN CASE OF	Richard M	elko						
5/29/2012	C I I I I	DATE				CONTACT:	BUSINESS PI	IONE NUMBE	œ		DATE			
	G. Reyes-Gutierrez	5/29/2012	med				916-227-07	721			5/29/	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

					200	30000	SH3	CHANGE	EXPER	EXPENDITURE		SPECIAL DES	ALUES	
		8			DIST	UNIT	DIST	TINO	AUTHOR	AUTHORIZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 4					9	3591	9	0		0		0612000239-1	00239-1	
Segment 12														
								TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
Table ITEM	SIZE	Ŏ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	Nc 18
:01E														
602C														
501														
603 C														
502					-									
503														
604D														
504														
05														
તાલા 508 : ્ર														
506S														
405T														
·7-														
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.500
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	ZE	0	0	0	0	0	0	0	0	0	0	=
	TOTAL	TOTAL WT. PER SHEET	HEET	0	0	0	0	0	0	0	0	0	0	٥
y askal Mashington	DATE		REMARKS			IN CASE OF	NAME	į					VERIFY	
CHECK	DATE	2012				QUESTION	BUSINESS PHONE NUMBER	ONE NUMBE			DATE			
G Bovos-Gutiomoz	00/3	0,00/00/2				CONTACT:	100000000	Š			0,000,000,0			

Retaining Wall # 4												,	5	
Retaining Wall # 4					SOL	SOURCE	CH	CHARGE	EXPEN	EXPENDITURE		SPECIAL DES	AL DES	
Setaining Wall # 4					DIST	TINO	DIST	TINO	AUTHOF	AUTHORIZATION		WHEN AP	WHEN APPLICABLE	
					9	3591	9	0	-	0		0612000239-1	0239-1	
Pedestal Rebar														
5 14								TOTA	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
#4 @ 6"	4	9	13.16		131.6									
#4 @ 6"	4	9	23.82		238.2									
in the state of th														
rie														
1 10														
1														
97														
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	370	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.300
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	IZE	0	247	0	0	0	0	0	0	0	0	٥
	TOTAL	TOTAL WT. PER SHEET	неет	0	247	0	0	0	0	0	0	0	0	ا ت
А	DATE	-	REMARKS				NAME						VERIFY	
Rachel Washington	5/30/2012	2012				IN CASE OF	Richard N	Richard Melko						
HECK	DATE					CONTACT:	BUSINESS P	HONE NUMBE	œ		DATE			
G. Reyes-Gutierrez	2/30	5/30/2012					916-227-0721	721			2/30/	5/30/2012		1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL DS-D 0110 (REV 8/91)	NOI								RW	PAGE		8	
				Š	SOURCE	8	CHARGE	EXPEN	EXPENDITURE		SPECI	AL D	
				DIST	TINO	DIST	>	АЛТНО	AUTHORIZATION		WHEN AF	WHEN APPLICABLE	
Retaining Wall # 6			.8	9	3591	9	0		0		061200	0612000239-1	
Retaining Wall # 6 Summary (see segments in below sheets)	low sheets)												
							TOTA	TOTAL LENGTH - EACH SIZE	CH SIZE				
TEM	SIZE	NO. LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
Total # of Segments =		8											
Type 1 Retaining Wall Reinforcement Totals			c	10817	8116.1	936.5	3406.3	743.1	0 200	C	c	c	c
NOTE: For computing steel in Standard Retaining Wall from the charts, use 99 for size.	TOTAL LENGTHS WT. PER FOOT	GTHS TOO	0 0 0.376	1082	8116	937	3406	743	903	0 0 4.303	0 0 5:313	0 7.650	0 0 13.600
	TOTAL WT.	PER SHEET	• •	723	8,465	1.407	6,962	1.984	3.070				
ВУ	DATE	DATE REMARKS			O SACI						•	VERIFY	
Hachel Washington CHECK	5/29/2012 DATE	12			QUESTION CONTACT:		Richard Melko BUSINESS PHONE NUMBER	Œ		DATE			
C Doylog Cutions	0,00/00/1	,								0,000,000,000			

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										RW	PAGE	2	OF	
					nos	SOURCE	CHA	CHARGE	EXPEN	EXPENDITURE		SPECI	SPECIAL DES	
					DIST	LIND	DIST	TIND	AUTHOF	AUTHORIZATION		WHEN AF	WHEN APPLICABLE	
Retaining Wall # 6					9	3591	9	0		0		061200	0612000239-1	
Segment 1								STA 13	STA 13+37.23 to 13+45	, 13+45				
H= 14								TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
601 E	9	40	15.00				600.0							
602C #6 @7"	9	13	18.19				236.5							1
501 #5@12"	υ	æ	14.08			112.6								
603C (none)														T
502 #5 Tot 4	ß	4	7.44	å		29.7								-
503 #5@7"	5	13	6.34			82.5								
604D #6@7"	9	13	7.70				100.0							1
504 #5@12"	5	10	7.44			74.4								
505 #5@7"	ß	13	3.83			49.8					. 1.			
506 #5@12"	S	ω	7.44			59.5								
506S #5@18"	5	თ	7.44			6.99								
405T #4@18"	4	6	7.44		699									
STEP														1
507	ß	ω	9.25			74.0								
508	ß	80	13.83			110.7								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	67	099	937	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	IZE	0	45	688	1,407	0	0	0	0	0	0	0
	TOTAL	TOTAL WT. PER SHEET	HEET	0	45	688	1,407	0	0	0	0	0	0	0
ВУ	DATE		REMARKS				NAME						VERIFY	
Rachel Washington	5/29	5/29/2012				IN CASE OF		elko						
СНЕСК	DATE							BUSINESS PHONE NUMBER	Œ		DATE			
G. Reyes-Gutierrez	5/29	5/29/2012					916-227-0721	721			5/29/	5/29/2012		ij

										RW	PAGE	9	3 OF	
ii.						SOURCE	100	CHARGE	EXPE	EXPENDITURE		SPEC	SPECIAL DES	
0 H 1 M 1 - 1 - 4 - 6					DIST	LIND	DIST	LIND	AUTHC	AUTHORIZATION		WHEN A!	WHEN APPLICABLE	
Retaining Wall # 6				-2	9	3591	9	0		0		06120	0612000239-1	
Segment 2								STA	STA 13+45 to 14+00	14+00				
H= 16								TOTA	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	Ŏ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
60 1E	9						0.0							
702C #7 @6"	7	22	22.82					1255.3						
501 #5@12"	2	55	17.76			976.6								
703C Short c bars	7	22	11.85					652.0						
502 #5 Tot 4	5	4	54.67	1		218.7								
503 #5@6"	2	110	6.90			758.9								
904D #9@6"	6	110	8.21							903.0				11,
504 #5@12"	5	12	54.67			656.0								-
505 #5@9"	2	110	4.33			476.3								80
506 #5@12"	5	80	54.67			437.4								
506S #5@18" Zone 1	S.	9	54.67			328.0								
506S #5@12" Zone 2	ស	80	54.67			437.4								
405T #4@18"	4	=	54.67		601.4									
														4
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS	w	0	601	4289	0	1907	0	903	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	402	4,474	0	3,899	0	3,070	0	0	0	0
	TOTAL	TOTAL WT. PER SHEET	SHEET	0	402	4,474	0	3,899	0	3,070	0	0	0	0
- A.g.	DATE		REMARKS										VERIFY	
Rachel Washington	5/20	5/29/2012				IN CASE OF		felko						
	DAIE					CONTACT:		BUSINESS PHONE NUMBER	œ		DATE			-
G. Heves-Calmerrez	5/5	5/00/0010					916-227-0721	721			5/29/2012	2012		-

Retaining Wall # 6														-
Retaining Wall # 6						SOURCE		CHARGE	EXPE	EXPENDITURE		SPEC	SPECIAL DES	
Retaining Wall # 6					DIST	TINO	DIST	TINU	AUTHO	AUTHORIZATION		WHEN A	WHEN APPLICABLE	
seament 3					9	3591	9	0		0		06120	0612000239-1	p 1
								STA 14	STA 14+00 to 14+34 78	4+34 78				į,
H= 18								TOTA	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	Ŏ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
601 E	9						0.0							
702C #7 @6"	2	42	23.25					976.5						
501 #5@12"	5	35	17.98			629.2								
703C Short c bars	7	42	12.44					522.5						
502 #5 Tot 4	5	4	34.45	d		137.8								
503 #5@6"	5	83	7.89			655.1								
804D #8@5"	8	83	8.95						743.1					
504 #5@12"	5	14	34.45			482.3								
505 #5@9"	2	83	4.83			401.1								
506 #5@12"	2	10	34.45			344.5								
506S #5@18" Zone 1	S	9	34.45			206.7								124
506S #5@12" Zone 2	2	6	34.45			310.0								
405T #4@18"	4	12	34.45		413.4									şi
														1
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	413	3167	0	1499	743	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	iZE	0	276	3,303	0	3,064	1,984	0	0	0	0	0
	TOTAL	TOTAL WT. PER SHEET	HEET	0	276	3,303	0	3,064	1,984	0	0	0	0	0
λn	DATE	_	REMARKS				NAME						VERIFY	Ī
Rachel Washington CHECK	5/29/2012 DATE	/2012				IN CASE OF QUESTION	Richard Melko	elko			DATE			
G Bavee-Gutierrez	00/3	6/00/0040					200							

REINFORCING STEEL	SPORTATION												11
DS-D 0110 (REV 8/91)				3						PAGE	ß	OF	
				DIST	SOURCE	DIST	CHARGE	AUTHOF	EXPENDITURE AUTHORIZATION		SPECIAL DES WHEN APPLICAB	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 6				9	3591	9	0		0		0612000239-1	0239-1	
Segment 4													
							TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM 801F	SIZE NO.	LENGTH	No 3	0 N 4	No 5	No 6	No 7	No 8	9 ON	No 10	No 11	No 14	No 18
602C													
501													
603C													
502			A										
503													
604D													
504													
505													
506													
50 6S													
405T												100	
													1
· 4													- -
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	HS	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	_	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	RSIZE	0	0	0	0	0	0	0	0	0	0	0
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TOTAL WT. PE	TOTAL WT. PER SHEET	0	0	0	0	0	0	0	0	0	0	0
achel Washington	5/29/2012	DEMANA				NAME Richard M	S					VERIFY	1 }
СНЕСК	DATE				CONTACT:	BUSINESS PHONE NUMBER	ONE NUMBER			DATE			
		_											

REINFORCING STEEL									4 10 00 00 00 00 00 00 00 00 00 00 00 00				
DS-D 0110 (REV 8/91)					100				RW	PAGE	9	OF.	
				DIST	SOURCE	DIST	CHARGE	AUTHO	EXPENDITURE AUTHORIZATION		SPEC WHEN A	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 6				9	3591	9	0		0		06120	0612000239-1	
Segment 5													
							TOTA	TOTAL LENGTH - EACH SIZE	SH SIZE				
ITEM	SIZE NO.	D. LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
60 1E													
602C													
501													
603C													
502			A										
903													
604D													rice in
504													
505													100
506													
206 S													
405T													
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	THS	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	то	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	ER SIZE	0	0	0	0	0	0	0	0	0	0	0
1.0	TOTAL WT. P	TOTAL WT. PER SHEET	0	0	0	0	0	0	0	0	0	0	0
BY	DATE	REMARKS				NAME						VERIFY	
Rachel Washington CHECK	5/29/2012 DATE	2			QUESTION	Richard Melko	elko			DATE			bi
G. Reyes-Gutierrez	5/29/2015					916-227-0721	20.1			5/00/0010	0,00		- 14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL	TATION												Ulate
DS-D 0110 (REV 8/91)									RW	PAGE	7	OF	
				SOU	SOURCE	CHA	CHARGE	EXPER	EXPENDITURE		SPECI	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 6				9	3591	9	0		0		061200	0612000239-1	95
Segment 6													
							TOTAL	TOTAL LENGTH - EACH SIZE	SH SIZE				
ITEM 601 E	SIZE NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 ON	No 10	No 11	No 14	No 18
60 2C													
501													
603C													
502			1										
503													
604D													
504					٠								
505													
905													8.
2065													100
405T													Transit I
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	S	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT, PER SIZE	SIZE	0	0	0	0	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	SHEET	0	0	0	0	0	0	0	0	0	0	0
	DATE	REMARKS			0 10	NAME						VERIFY	1
CHECK	5/29/2012 DATE				QUESTION	Richard Melko BUSINESS PHONE NUMBER	elko one number			DATE			- N
					CONTACT								

DS-D 0110 (BEV 8/91)	STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL DS-D 0110 (BFV 8/91)									à				
					0	100				M.	PAGE	8	PP	
					DIST	SOURCE	DIST	CHARGE	AUTHOI	EXPENDITURE AUTHORIZATION		SPECI WHEN A!	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 6			Ť.		9	3591	9	0		0		061200	0612000239-1	
Segment 7														1.4.1
								TOTA	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
601 E														
602C														
501														
603C														
502				-										
503														
604D														
504														
505														
506														
2068														
405T														
\$1.														i i i
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	NGTHS		0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	F00T		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WI	TOTAL WT. PER SIZE		0	0	0	0	0	0	0	0	0	0	0
	TOTAL WI	r. Per she	Е	0	0	0	0	0	0	0	0	0	0	0
A	DATE		REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	012			Ĭ	IN CASE OF QUESTION	Richard M	Richard Melko						
	DAIE					CONTACT:	BUSINESS PHON	IONE NUMBE	œ		DATE			

DS-D 0110 (REV 8/91)									RW	PAGE	6	OF	
				SO	SOURCE	CHA	CHARGE	EXPEN	EXPENDITURE		SPECI	SPECIAL DES	
				DIST	TIND	DIST	TINO	AUTHO	AUTHORIZATION		WHEN AF	WHEN APPLICABLE	
Retaining Wall # 6				9	3591	9	0		0		061200	0612000239-1	
Segment 8													77.0
			Ц				TOTA	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
601E													
602C													- 4
501	, i												
003C													
502													
203													
604D													
504													77
205													
506													
2068													
405T													1
													1
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	HS	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	F	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	R SIZE	0	0	0	0	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	R SHEET	0	0	0	0	0	0	0	0	0	0	0
ВУ	DATE	REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012				IN CASE OF	Richard Melko	elko						
HECK.	DATE				CONTACT		IONE NUMBE	Œ		DATE			
G. Reyes-Gutierrez	5/29/2012					916-227-0721	721			5/29/2012	2012		E

REINFORCING STEEL													*
DS-D 0110 (REV 8/91)									RW	PAGE	10	OF	100
				DIST	SOURCE	CHA	CHARGE	EXPEN	EXPENDITURE AUTHORIZATION		SPECI.	SPECIAL DES WHEN APPLICABLE	t.
Retaining Wall # 6				9	3591	9	0		0		0612000239-1	0239-1	
Segment 9													
WBLI	SIZE	LENGTH	No 3	4 oN	No 5	900	TOTAL No 7	TOTAL LENGTH - EACH SIZE	CH SIZE	No 10	11 oN	No 14	NO 18
601 E													
602C													
501													
60 3C													
502			-3										
503													
604D													-
504													1 5,
505													10
506													-
S909													
405T													
													-
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	co.	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lbfft to nearest pound.	TOTAL WT, PER SIZE	SIZE	0	0	0	0	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	SHEET	0	0	0	0	0	0	0	0	0	0	0
BY Doct = 1, W = 1 in - 2 in -	DATE	REMARKS			NCASEOF	NAME						VERIFY	al i
CHECK	DATE			Ī	QUESTION CONTACT:	BUSINESS PH	BUSINESS PHONE NUMBER	æ		DATE			
		_			The same of the sa								

REINFORCING STEEL													1
DS-D 0110 (REV 8/91)									RW	PAGE	11	OF	
				SOU	SOURCE	CHA	CHARGE	EXPEN	EXPENDITURE AUTHORIZATION		SPECI WHEN AP	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 6				9	3591	9	0		0		061200	0612000239-1	
Segment 10													
							TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				11 200
ITEM	SIZE NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
001E													
,													
501													
903C													
502													
503													
604D													
504													
505													183
506													
\$909													
405T													
													76
													1
													, I
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	Ø	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	SIZE	0	0	0	0	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	SHEET	0	0	0	0	0	0	0	0	0	0	0
	DATE	REMARKS				NAME						VERIFY	
Rachel Washington снеск	5/29/2012 DATE				OUESTION CONTACT:	Richard M BUSINESS PH	Richard Melko BUSINESS PHONE NUMBER			DATE			

										A N	PAGE	2	PP	
						SOURCE		CHARGE	EXPE	EXPENDITURE		SPECI	SPECIAL DES	
					DIST	TINO	DIST	LINO	AUTHO	AUTHORIZATION		WHEN A	WHEN APPLICABLE	
Retaining Wall # 6					9	3591	9	0		0		061200	0612000239-1	
Pedestal Rebar														7,077
								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	Ñ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
#4 @ 6"	4	9	13.16		131.6									
#4 @ 6"	4	10	23.82		238.2									
b. (1)														+
S														
ъ														
			2011											
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	370	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	R FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	IZE	0	247	0	0	0	0	0	0	0	0	0
712	TOTAL	TOTAL WT. PER SHEET	HEET	0	247	0	0	0	0	0	0	0	0	0
2 ocho Wochington	DATE		REMARKS			IN CASE OF	NAME						VERIFY	1.
CHECK	DATE	202				QUESTION CONTACT:	BUSINESS PHONE NUMBER	HONE NUMBE	H.		DATE			
G Beves-Gutierrez	5/30	5/30/2012					1070 700 810	101			5/30/2012	2012		-51-

DS-D 0110 (REV 8/91)										RW	PAGE	12	OF	
					SOURCE	ice.	CHARGE	1GE	EXPENDITURE	NTURE		SPECIAL DES	L DES	
					DIST	TINU	DIST	TINO	AUTHORIZATION	ZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 6					9	3591	9	0	0			0612000239-1	1239-1	5 111
Segment 11														- 1
		-						TOTAL	TOTAL LENGTH - EACH SIZE	4 SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
601 E														
602C														I.
501														
603C														βĝ
202														Ī
503														1 4
604D														
504														
505														k
208														
5068														7
4051														1
														ie!
														1
e al														j.
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	VGTHS		0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	T00		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	. PER SIZE	ш	0	0	0	•	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	. PER SHE	ET	0	0	0	0	0	0	0	0	0	0	0
ВУ	DATE	RE	REMARKS				NAME						VERIFY	
Rachel Washington	5/29/2012	212				IN CASE OF		Richard Melko						
СНЕСК	DATE							HONE NUMBE	6		DATE			
G. Reyes-Gutierrez	5/29/2012	012					916-227-0721	721			5/29/	5/29/2012		

														1 - 4.01
REINFORCING STEEL	ORTATION													
DS-D 0110 (REV 8/91)										RW	PAGE	13	OF	
					SO	SOURCE	CH/	CHARGE	EXPER	EXPENDITURE		SPECI	SPECIAL DES	1
Retaining Wall # 6					9	3591	9	0		0		061200	WHEN APPLICABLE 0612000239-1	R
Segment 12														
								TOT	TOTAL LENGTH - EACH SIZE	CH SIZE				
ITEM	SIZE	O	LENGTH	No 3	No 4	No 5	9 oN	No 7	No 8	90 O	No 10	No 11	No 14	No 18
602C														
501														
60 3C														10.
502														
503														
604D														1
504														
505														1
506														7
S909														
405T														Į1
														-
														F - E4
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS	15	0	0	0	0	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	0	0	0	0	•	0	0	0	0	0
and the state of t	TOTAL	TOTAL WT. PER SHEET	SHEET	0	0	0	0	0	0	0	0	0	0	0
By Rachel Washington	DATE 5/20	/2012	REMARKS			IN CASE OF	NAME DISESSED IN	-					VERIFY	
CHECK	DATE	DATE				QUESTION CONTACT:	BUSINESS PHONE NUMBER	IONE NUMBE	Œ		DATE			
G. Reyes-Gutierrez	5/28	5/29/2012					916-227-0721	721			5/29/2012	2012		8

JOB STAMP	Rebar Quantities	EA 06 24720
Segment H=10	CALC. BY. RW# Z	DATE
+99.38 to 12+40	Rachel Washington	DATE 5-18-12
H= 7.70' W= 7.58'	3=5.25' C=2.33' L=	40.62
2"= 0.167' 3"= 0.25' 2	"= 0.333 9"= 0.75"	F=1,33'
X=1.321'		
6020 #609"		
	.167)+(1.33-0.25)=	= 8.61'
HODK = 12.33 + 1.32		
# of bars = (40.62-1		= 54 bars
501 #5@12" Bar Length= (7.70 +	33-0.333)= 8.70	
# of bars = 140.62 - 6		bars
	. 3557- 12 40 14 41	0473
502 # 5 To+ 4	0 222) - 40 007/	
Bar Length= (40.62	-0.333) - 40.287	
503 #5@9"		
	321 +1.5 - 0.167')= 5	
# of bars = (40.62 - 0	.3337:0.75'=53+1	= 54 bars

QUANTITY CALCULATIONS DC-CEM-4801 (OLD HC-52 REV. 1792) 7541-3520-0	SHEF	2053
Segmen+1 H=10	Rebar Quantities LOCATION RW#2 CALC. BY	EAOG 2HTZE SEGREGATION YES NO
p#6=0.75"=0.0625' H=7.70 B=5.25	Rachel Washington	
X=1.321 (35 x 0.		
Bar Length = [(5, 25 -	-1.321 + 2.19]] -0.167	= 5.952
# of bars = (40.62 - 6	2.333)+0.75=54+1	= 55 bars
Bar Length = (40.62 # of bars = (5.25-1		1 (2mws) = 8 ba
505 #5@9"		
Bar Length = (2.33+1) # of bars = (40.62'-0		= 55 bars
506 # 5@ 12" Bar Length = (40.62 -	0.333) = 40.287'	
# of bars = (2.33-0 5065 # 5@ 18"		ws) = 6 bars
Bar Length = (40.62	-0.333)= 40.287	
# of bars = (7.70 - 0	1.333) +1.5 = 5+1= 6	bars

Rebar Quantities EA 06 - 24 T201 Segment(1) H=10 RW#2 W=7.58 F=1.33' Rachel Washington DATE 5-11-12 H= 7.70 4"= 0.333' 10"=0.833' 16"= 1.33' 18"= 1.51 L=40.62 40ST # 4@18" Bar Length = (40.62-0.333) = 40.287' # of bars = (7.70 - 0.333) = 1.5' = 5+1= 6 bars 601E #6@10" x 15'-0" Bar Length = 15' 507 #5@16" Hster= 1.33 + 2.00 = 3.33 Bar Length = (7.58 -0.333) = 7.247 # of bars = (3.33 - 0.333) = 1.33 = (2+1)(2sets) = 6 bars 508 # 5 2'-0" @ 16" Bar Length = 2/(3.33-0.333)+2= 9.994 #of bars = (7.58-0.333) +1.33 = 5+1=66ars

QUANTITY CALCULATIONS SHEET OF \$ Rebar Quantities EA 06- ZHTZOI Segment 2 H=12 PW#2 12+40 to 12+80 Rachel Washington DATE 5-18-12 H= 8.50 W= 8.33' B= 5.83' C= 2.50 4 = 40 2"=0.167' 3"=0.25' 4"=0.333' 9"=0.75' F=1.5 X=1.354 602C #6@9" Bar Length= (8.50-0.167)+(1.5-0.25)=9.583 Hook= (2.5 + 1.354 - 0.333) = 3.521 # of bars = (40-0.333) +0.75'= 53+1= 54 bars 501 #5@12" Bar Length= (8.50 + 1.50 - 0.333) = 9.667' # of bars = (40-0.333) = 1 = 39+1=40 bars 502 #5 To+4 Bar Length = (40-0.333) = 39.67 # of bars = 4 503 #509" Bar Length = (5.83-1.354 + 1.5 -0.167) = 5.809' # of bars = (40-0.333) + 0.75 = 53+1= 54 bars

POSTED BY

DATE

DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520-0	SHE	ET 2 OF 3
Segment 2 H= 12	Rebar Quantities	
L=40	CALC BY	
p#6=0.75"=0.0625"	Rachel Washington	DATE 5-18-12
H= 8.50' B= 5.83' C=	2.50 9"= 0.75' 18"=	
6040 #689" (35*	0.0625') = 2.19'	
Bar Length=[(5.83-1.3		
# of bars = (40 - 0.333,) = 0.75 = 53 + 1 = 54	bars
504 #5@12" Bar Length = (40-0.33)	20/2/	
# of bars = (5.83'-1.3		sets) - in sets
505 #589"		30 30 30 30
Bar Length = (2.50+1) - 0	0.167 = 3.33	
# of bars = (40 0.333).	÷0.75' = 53+1= 54 b	ars
506 # 5812"		
Bar Length = (40-0.333)		
# of bars = (2.50-0.167)=1=(2+1)(2rows)=61	bars
506S # 5@18"		
Bar Length = (40-0.33	3)= 39.67'	
# of bars = (8.50 - 0.3	33):1.5'= 5+1= 6b	ars
POSTED BY DATE	POSTED TO	

SHEET 3 OF 3 Rebar Quantities EA 06-2HT201 Segment 2) H=12 CALC BY RW#2 L=40 Rachel Washington DATS-18-12 H= 8.50 W= 8.33' 4"= 0.333' 10"= 0.833' 16"= 1.33' 18'=1.5' f=1.5' 405T # 4 @ 18" Bar Length = (40-0.333) = 39.67' # of bars = (8.50-0.333) - 1.5 = 5+1= 6 bars 601E #6@10" X 15'-0" 507 # 5@16" HSte= 1.50+ (270.5-268)=4.0 Bar Length = (8.33-0.333) = 7,997 # of bars = (4.0 -0.333) + 1.33 = (3+1)(2 sets) = 8 bars Bar Length = 2 [(4.0 -0.333) + 2] = 11.334' # of bars = [(8.33 - 0.333) + 1.33"] = 6 + 1 = 7 bars

QUANTITY CALCULATIONS SHEET / OF 3 Rebar Quantities EA 06-24920, Segment (3) H=14 RW# 2 12+80 to 13+20 Rachel Washington DATES-21-12 H= 9.80 W= 9.58 B= 6.583 C= 3.0' L= 40.0 2"= 0.167' 3"= 0.25' 4"= 0.333' 9"= 0.75' F=1.67' X=1.408 602C #687" Bar Length= (9.80 -0.167) + (1.67-0.25) = 11.05' HOOK= (3.0 +1.408 -0.333)= 4.075' # 0+ bars = (40-0.333) -0.583 = 68+1= 69 bars 501 #5012" Bar Lensth = (9.80 + 1.67 + 0.333) = 11.137' # of bars = (40 - 0.333) = 1= 39 +1 = 40 bars 502 #5 Tot 4 Bar Length= (40 - 0.333) = 39.67 # of bars = 4 503 #5@7" Bar Length= 16.583 - 1.408 + 1.5 -0.167 = 6.508 # of bars = (40-0.333) +0.583 = 68+1= 69 bars

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DATE

SHEET L OF S LOCATION Quantities EA 06-241201 Segment 3) H=14 RW#2 L = 40 10#6=0.75'=0.0625' Rachel Washington DATE 5-21-12 H= 9.80 B= 6.583 C=3.0' 7'= 0.583' 18'= 1.5 x=1.408 604D #6@7" (45 * 0.0625)= 2.813 Bar Length=[(6.583-1.408+2.813)] = 7.988 # of bars = (40 -0.333) + 0.583' = 68 + 1 = 69 bars 504 # 5@12" Bar Length= (40-0.333) = 39.67 # of bars = (6.583'-1.408'-0.167) +1=(5+1)(25ets)=12 bars 505 #5@7" Bar Length= (3.00+1)-0.167=3.833' # of bars = (40 - 0.333) + 0.583' = 68 +1 = 69 bars 506 #5@12" Bar Length= (40 -0.333) = 39.67' # of bars = (3.00-0.167) + 1= (3+1)(2rows) = 8 bars 5065 # 5@18" Bar Lengths = (40 - 0.333) = 39.67 # of bars = (9.80 -0.333) = 1.5' = 6+1= 7 bars

SHEET 3 OF 3 Rebar Quantities EA 06-2HT201 Segment 3) H=14 RW#2 L = 40 Rachel Washington DATE 5-21-12 4"=0.333 10"= 0.833 16"=1.33" $H = 9.80 \quad W = 9.58$ 18"=1.5' F=1.67' 405T # 4@18" Bar Length = (40-0.333) = 39.67' # of bars = (9.80 -0.333) = 1.5 = 6 +1 = 7 bars 601E # 6@10" x 15'-0" HStep 1.67+1.50 = 3.17' 507 #5@16" Bar Length = (9.58'-0.333) = 9.247' # of bars = (3.17 -0.333) + 1.33' = (2+1)(2sets) = 6 bars 508 #5 2-0" Bar Length= 2[(3.17-0.333)+27= 9.674 # of bars = [(9.58 - 0.333) + 1.33] = 6 +1 = 7 bars

QUANTITY CALCULATIONS SHEET OF 3 Rebar Quantities EA 06 - 2HT201 Segment 4 H=14 KW#Z 13+20 to 13+40 Kachel Washington 3-21-12 H=10.52 W= 9.58 B=6.583 C=3.0 L=20 2"= 0, 167 3"= 0.25 4"= 0.333 7"= 0.583 F= 1.67 X=1,438 602C #6@7" Bar Length= (10.52-0.167) + (1.5-0.25') = 11.603' Hook= (3.0 + 1.438 - 0.333)= 4.105' # of bars = (20-0-333) + 0.583 = 33+1= 34 bars 501 #5@12" Bar Length= (10.52+1.67-0.333)= 11.857 # of bars = (20-0.333) + 1 = 19 +1 = 20 burs 502 # 5 To + 4 Bar Length = (20-0.333) = 19.67 # of bars = 4 503 #507" Bar Length= (6.583 - 1.438 + 1.5 - 0.167) = 6.478 # of bars = (20-0.333) -0.583 = 33+1 = 34 bars

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DATE

SHEET Z OF S Rebar Quantities EA 06-2HT201 Segment (4) H=14 RW# 2 0#6=0.75"=0.0625' Rachel Washinston 015-21-12 H=10.52' B=6.583 C=3.0' 7'=0.583' 18"=1.5' X=1.438 6040 #6@ 7" (45x 0.0625') = 2.813 Bar Length = [(6.583-1.438 + 2.813) = 7,958 # of bars = (20-0.333) = 0.583 = 33+1 = 34 bars 504 #5@12" Bar Length = (20 - 0.333) = 19.67' # of bars = (6.583 - 1.438 - 0.167) - 1 = (4+1) (2 sets) = 10 bars 505 #5@7" Bar Length = (3.00+1)+0.167= 3.833 # of bars = (20+0.333) + 0.583 = 33+1=34 bars 506 #5@12" Bar Length= (20-0.333)= 19.67' # of bars = (3.00-0.167) + 1 = (2+1)(2 rows) = 6 bars 5065 #5@18" Bar Lengths = (20-0.333) = 39.67 # of bars = (10.52 - 0.333) - 1.5 = 6+1= 7 bars

	SHEET OF	5
Rebar Quantities	EA 06	2HT201
LOCATION RW#Z	SEGREGATION	
CALC. BY		

Segmen+(4) H=14 Rachel Washington DATES-11-12 H=10.52 W= 9.58' 4"= 0.333' 10"= 0.833' 16"= 1.33' 18"= 1.5' F= 1.67' 405T # 4@18" Bar Length = (20-0.333) = 19.67' # of bars = (10.52 - 0.333) + 1.5' = 6+1= 7 bars 601E #6@ 10" x 15'-0" 507 #5@16" Hstep= 1.50 + 1.67 = 3.17 Bar Length= (9.58-0.333) = 9.247 # of bars = (3.17-0.333) = 1.33 = (2+1)(2sets) = 6 bars 508 #5 2'-0" @16" Bar Length = 2 [(3.17-0.333) + 2] = 9.674' #ofbars=[(9.58-0.333)+1.331] = 6+1=7 bars

Rebar Quantities EA 06-24T20, Segmen+ (5) H= 14 LOCATION PW#2 13+40+013+60 Rachel Washinston DATE 5-21-12 H= 11.42' W= 9.58' B = 6.583 C = 3.0' L= 20 2"= 0.167 3"= 0.25 4"= 0.333 7"= 0.583"F= 1.67' X=1.476' 602C #6@7" Bar Length= (11.42-0.167)+(1.67-0.25)= 12.673 HOOK = (3.0 + 1,476-0.333) = 4.143 # of bars = (20 1 - 0.333) + 0.583 = 33+1 = 34 bars 501 #5@12" Bar Length= (11.42 + 1.67 + 0.333) = 12.757 # of bars = (20 + 0.333) + 1 = 19 +1 = 20 bars 502 # 5 To+4 Bar Length = (20 -0.333) = 19.67' #of bars = 4 503 #5@ " Bar length= (6.583-1.476+1.5-0.167)=6.44 # of bars = (20 - 0.333) = 0.583' = 33+1= 34 bars

Rebar Quantities EAD6 2HT201 Segment (5) H=14 RW# 2 \$#6=0.78"=0.0625 Rachel Washingtons 5-11-2012 H= 11.42 B=6.583' C= 3.0' 7"= 0.583' 18"= 1.5" X=1.476 (45+0.0625)=2.813 4= 20 604D #687" Bar Length= (6.583-1.476 +2.813) -0.167=7.753' # of bars = (20 1-0.333) - 0.583 = 33+1= 34 bars 504 #5@12" Bar Length = (20 -0.333) = 19.67 # of bars = (6.583 - 1.476 - 0.167) = 1 = (4+1) (2mus) = 10bar: 505 # 507" Bar Length= (3.0 +1) - 0.167 = 3.838 # of bars = (20 -0.333) = 0.583 = 33+1=34 bars 506 #5@12" Bar Length= (-20 +0.333) = 19.67 # of bars= (3.00-0.333) = 1.0= (2+1)(2rows) = 6 bars 506S #5@18" Bar Length= (201-0,333)= 19.67 # of bars = (11.42'-0.333) +1.5'=7+1=8 bars

QUANTITY CALCULATIONS
DC-CEM-4801 (OLD HC-52 REV. 11/92) 75 SHEET 3 OF 3 Segment 5 H = 14 | ITEM Rebar Quantities EHO6-2HT201 | LOCATION RW#2 | SEGREGATION YES NO | DATE W= 9.58 F= 1.67 Rachel Washinston DATE 5-11-12 H= 11.42' 4"= 0.333 10"= 0.833' 16"= 1.33' 18"= 1.5' L = 20 40ST #4018" Bar Length= (20 -0.333) = 19.67' # of bars = (11.42 -0.333) = 1.5' = 7+1= 8 bars 601E # 6@ 10" x 15'-0" Bar Length=15

DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520-		
DC-CEM-4801 (OLD HC-52 REV. 11792) 7541-3520- JOB STAMP	M	
Segment 6 H= 16		EA 06-2HT20
segment of He 10		SEGREGATION YES ON THE NO THE NO THE NO THE NO.
17160 1-12.80		
13+60 to 13+80	Rachel Washinston	DATE 5-22-12
H=10.71' W=10.75'	B = 7.25' C = 3.50 L	= 20'
2"= 0.167' 3"= 0.25"	4"= 0.333' 6"= 0.50'	F=1.67
X=1,446		
7020 # 786"		
Bar Lenath - (10.71'-0	.167) + (1.67-0.25)=	1) 0/3/
		11.7103
HOOK = (3,5+1.446-0	333)= 4.613'	
# 0 (0.50 - 129	
# 07 DATS = (20 0.555)	$0.50' = (\frac{39}{2}) + 1 = 20$	bars
501 #\$@12"		
Bar Length = (10.71+1.6	7-0.233)- 12 047	
# of bars = (20-0.333	1=1=19+1=20 bars	
703c Short # 706" h	- 5 -251	
1036 310.4 11 166	1 - 3 - 12	
P		,
Bar Length = (5.75-0.1	67) + (1.67-0.25) = 7.00	03
HOOK = (3.5 + 1.446 - 0.	333 - 4.612	
# of bars = (20-0.333	1 = 0.5 = 139 1 + 1 = 20 1	pars
502 #5 To + 4	(2)	
Bar Length = (20-0,333	1= 19.67 Hofbars = 4	
503 #506"		
Bar Length= (7.25-1.44	6+1.50-0.167)= 7.137	7
# of bars = (20 - 0.333) +		

QUANTITY CALCULATIONS	0 2
JOB STAMP REBAY Quantities	SHEET OF S
Segment 6) H=16 LOCATION RW#Z	EA 06-2HT201 SEGREGATION YES NO DATE
0#6=0.75"=0.0625' Rachel Washington	DATE 5 - 22-12
H=10.71' B=7.25' C=3.50 6"=0.50'	
X=1.446 (45 * 0.0625')= 2.81	
904D # 9@6"	
Bar Length = [(7.25 - 1,446 + 2.81)] -0.167	'=8.447'
# of bars (20-0.333) + 0.5' = 39+1=	40 bars
504 #5@12"	
Bar Length = (20-0.333) = 19.67'	
# of bars = (7.25-1.446-0.167) = 1=	(5+1)(2000)=12bar
505 # 5@6"	
Bar Length= (3,50+1)-0.167'=4.33	
# of bars = (20-0.333) + 0.5 = 39+	1 = 40 bars
506 # 5012"	
Bar Length = (20-0.333)= 19.67'	
of bars = (3.50-0.167) + 1 = (3+1) (2000s) = 8 bars
5065 #5@18" zone1	
Bar Length = (20-0.333) = 19.67'	
$\# \text{ of bars} = (10.71 - 0.333) \div 1.5' = 3+1=$	4 bars
5065 #5@12" Zone 2 Bar Length = (20-0.333) = 19.67'	
# of bars = (10.71 -0.333) : 1 = 5 of 19	= 6bars
CEM 4801 DFC 52 PIEV 11:921	VEN. F

DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-352	on-o	2 9
JOB STAMP	176.074.4	FILE NO
Segment 6 H=16	Rebar Quantities	
scoller 11-10	CALC BY # 2	SEGREGATION YES NO DATE
W=10.75 L=20'	MKelyhal Washington	
	Rachel Washington	5-21-12
H=10.71 4"= 0.333	0' 10"= 0.833' 16"= 1.33	1
40ST #4@18"		
103. 4.4610		
Bar Length = (20-0.3	3331 = 19.67'	
# 0+ 10115 = [10.71+0.	,333) +1.5'=711=8 ba	2
507 #5@16" Hs.=		,
Step	1.67+(265-263)= 3.67	7
Bar Length = (10.75 - 0.	333) = 10.417	
	33) ÷ 1.33 = (2+1) (2sets	1= 6 bars
508 2-0"		
508 #5 @16"		
@16		
Bar Length = 2 [(3.67.	-0.333) 107-10.674	
	0 335) # 4 = 10.0 / 4	
# =	22 \ / 1 22	
(10.15-0.5	33) -1.33 = 7+1= 8 ba	irs
	POSTED TO	

DC-CEM-4801 (OLD HC-52 RE	V. 11/92) 7541-3520-	0	SHEET OF 3
Segment 7		Rebar Quantities	SEGREGATION YES DATE
		B= 7.25' C= 3.5	
2"=0.167		5 4"= 0.333 6"	
X = 1.465' 702C # 7@6	//		
		67) + (1.67 - 0.25)=12.403
# of bars = (6	0-0.333	(.333) = 4.632' (.5) = (.5) = (.5) + 1	= 60 bars
#50 12"		7 - 0.333) = 12.487	
# of bars = (60	-0.333)	=1=59+1=60 bars	
703c Short # Bar Length = (5		1=5.75'	= 7.003
HOOK = (3.5+	1.465-0	333) = 4.632'	
502 #5 To +4 Bar Length = ($0.50' = (\frac{119}{2}) + 1 =$	606415
# of burs = 4 503 #506"			
Bar Length = (7		465 + 1.50 - 0.167)	
POSTED BY	DATE	0.5 = 119+1 = 120	Dors

QUANTITY CALCULATIONS Rebar Quantities EA 06 2HT201 LOCATION RW#2 Segment (7) H=16 0#6=0.75"-0.0625 Raichel Washington DATES-Z1-12 H=11.15 B=7.25' C=3.50' 6"= 0.50' 18"=1,5' L=60 X = 1.465 (45 * 0.0625') = 2.81'904D # 9@6" Bar Length= [17.25-1.465+2.81)-0.167=8.428 # of bars = 160-0.333) + 0.5 = 119+1=120 bars 504 # 5@12" Bar Length = (60-0.333) = 59.67' # of bars = (7.25-1.465 -0.167)-1=(5+1)(2000s)=12bars 505 # 5@6" Bar Length = (3.50+1)-0.167 = 4.33 # of bars = (60-0.333) - 0.5 = 119 +1=120 bars 506 # 5@12" Bar Length = (60-0,333) = 59.67 # of bars= (3.50-0.167) = 1 = (3+1) (2rows)= 8 bars 5065 # 5@18" zone 1 Bar Length = (60-0.333) = 59.67' # of bars = (11.15 - 0.333) + 1.5 = 3+1= 4bars 5065 # 5812" zone 2 Bar Length = (60-0.333) = 59.67'

o+ bars = (11.15 - 0.333) +1 = 5 +1= 6 bars

QUANTITY CALCULATIONS SHEET OF 5 Repar Quantities EA 06 24T 201 Segment 1 H=16 W=10.75 L=60 Rachel Washington H=11.15 4"=0.333 10"=0.833' 16"=1.33' 405T # 4 @18" Bar Length = (60-0.333) = 59.67 # of bars = (11.15 - 0.333) + 1.5'=(7+1)=8 507 # 5@16" Hs = 1.67 + (263 - 261.66) = 3.01 Bar Length = (10.75-0.333) = 10.417 # of bars=[(3.01 - 0.333) + 1.33]=(2+1)(2 sets)= 6 bars 508 #5 21-011 Bar Length = 2/ (3.01-0.333) + 2 = 9.354 # of bars = [110.75-0.333) = 1.33] = 7+1=8bars

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DATE

QUANTITY CALCULATIONS SHEET OF 3 Relar Quantities EA 06 2HT20. RW#2 Segment (8) H=14 14+40 to 15+00 Rachel Washington 5-23-12 H= 10.13' W=9.58 B=6.583 C=3.0 L=60 2"= 0.167 3"= 0.25' 4"= 0.333' 7"= 0.583" 9"= 0.75' X = 1.422 f = 1.67602C #6@7" Bar Length = (10.13-0.167) + (1.67-0.25) = 11.383 Hook = (3.0 + 1.422 -0.333) = 4.089' # of bars = (60-0.333) + 0.583 = 102+1= 103 bars 501 # 5 @ 12" Bar Length = (10.13 + 1.67 - 0.333) = 11.47 # of bars = (60-0.333) = 1 = 59+1= 60 bars 502 # 5 Tot 4 Bar Length = (60-0.333) = 59.67 # of bars = 4 503 # 5@7" Bar Length = (6.583-1.422 + 1.5-0.167) = 6.494 # of bars = (60-0.333) +0.583 = 102+1=103 bars

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QUANTITY CALCULATIONS SHEET 2 OF 3 Rebar Quantities EA 06 ZHTZOI Segment (8) H= 14 RW# 2 0#6=0.75"= 0.0625' Rachol Washington 5-23-12 H=10.13' B=6.583 C=3.0 9"=0.75' 18"=1.5" X=1,422 7"= 0.583' L=60' 604D #6@7" (45* 0.0625) = 2.81 Bar Length= [(6.583-1.422 + 2.80] -0.167'= 7.804 # of loars = (60-0.333) + 0.583 = 102+1=103 bas 504 # 5@12" Bar Length = (60-0.333) = 59.67' # of bars = (6.583'-1.422-0.167):1= (5+1) (2sets)=12b 505 #5@7" Bar Length = (3.0+1) -0.167 = 3.833 # of bars = (60-0.333) + 0.583 = 102+1= 103 bars 506 #5@12" Bar Length = (60 - 0.333) = 59.67 # of buis = (3.0-0.167) + 1= (3+1)(2 sets)= 8 bars 5065 #5@18" Bar Length = (60-0.333) = 59.67 # of bars = (10.13-0.333) + 1.5' = 6+1= 7 bars

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		(PA) (-		3 3
Segment & H=	14		luantities v # 2		
L=60		Rachel	Washin 89	on E	-23-12
W = 9.58 F = 1.67		W 0.00	2. 1.2	1 12"	
H=10.13 4"=0.3	25 11) = 0.83	5 16 = 1.3	3. 18 :	= 1.5
Bar Length = (60.	0 327		631		
# of bars = (10.13				bacs	
507 #5@16"					2 62 /
Bar Length= (9.5	58 -0.	333) = 0	1.247	4,50)=	5.85
# of bais = (3.83	0.3	33):1=	(3+1)(2 sets)=	· 8bars
508 #5 2'-0"					
			-7 ·		
Bar Length = 2[d		
t of bars = [(9.58.	-0.333) ÷1.33	= 6+1=	7 bars	
STED BY					

DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520-0 JOB STAMP		EET OF 3
Segment 9 H=14	Rebar Quantities	EA 06 2HT 20 SEGREGATION VES NO
15+00 +0 15+40	Rachel Washinston	DATE 5-23-12
H=10.32 W=9,58 B.	= 6.583 C= 3.0' L=	40
2"= 0.167 3"= 0.25"	4"= 0.333' 7"= 0.583'	9"=0.75"
X = 1.430 F = 1.67		
602C #6@7"		
Bar Length= (10.32-0.16	7)+(1.67-0.25)=11.5	73
Hook= (3.0 + 1.430 -0.3	33) = 4.097	
# of bars = (40 - 0.333)	1 + 0.583 = 68+1=69	bars
501 #5@12"		
Bar Length = (10.32 + 1.	67-0.333)= 11.657'	
# of bass = (40-0.333) +1 = 39+1= 40 bars	
502 #5 TOT 4		
Bar Length = (40 - 0 33	3)= 39.67	
# of bars = 4 bars		
503 #5@7"		
Bar Length = (6.583-1,	430 + 1.5 - 0.167) = 6	. 486
t of bars = (40-0.333)	÷ 0.583 = 68+1=69	bers
		UNI S

CEM-4801 INC.52 REV. 11 to

QUANTITY CALCULATIONS SHEET 2 OF 3 Rebar Quantities EA 06 2HT201 Segment (9) H=14 2W#2 0#6=0.75 = 0.0625 Rachel Washington DATE 5-23-12 H=10.32 B=6.583' C=3.0 9"=0.75' 18"=1.5" X=1.430 7"=0.583' L=40 604D #607" (45 * 0.0625')= 2.81 Bar Length=[(6.583-1,430+2.81)]-0.167=7.796" # of bars = (40-0,333) + 0.583 = 68+1=69 bars 504 #5@12" Bar Length = (40-0.333) = 39.67' # of bars = (6.583 -1.430 -0.167) = 1 = (4+1)(2 sets) = 10 sets 505 #507" Bar Length = (3.0+1)-0.167=3.833' # of bars = (40-0.333) = 0.583 = 68+1 = 69 bars 506 #5@12" Bar Length = (40-0.333) = 39.67' # of bars= (3.0-0.167) = 1= (3+1)(2sets)=8bars 506S #5@18" Bar Length = (40-0.333) = 39.67'

of bars = (10.32 - 0.333) + 1.5 = 6+1= 7 bars

POSTED BY

DATE

QUANTITY CALCULATIONS DC-CEM-4801 (OLD HC-52 REV 11/92) 75

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- de	-
U DI	Contract

Segment 9 H=14	Rebar Quantities	EA 06 2HT2
L=40		
W=9.58' F=1.67'		
H= 10.32 4" - 0.333'	10"= 0.833' 16"= 1.33	10" 151
	0 = 0.055 10 = 1.55	10=1.5
40ST #4@18"		
Bar Length= (40-0.33	3) = 39.67'	
# 0+ Dars = (10.32-0,	333) ÷1.5 = 6 +1= 7 bac	3
6		

QUANTITY CALCULATIONS SHEET OF 3 Rebar Quantities EA 06-2HT20 H=12 Segment (10) CALC BY RW#2 15+40 to 15+74.59 Rachel Washinston 5-23-12 H=9.11 W=8.33' B=5.83' C=2.50' L= 34.59' 2"= 0,167' 3"= 0.25 4"= 0.333 9"= 0.75' F= 1.50 X = 1.3806020 #6@9" Bar Length = (9.11-0.167) + (1.5-0.25)=10.193' Hook = (2.5 + 1.380 - 0.333) = 3.547' # of bais= (34.59-0.333) + 0.75'= 45+1 = 46bais 501 #5012" Bar Length = (9.11 + 1.50 - 0.333) = 10.277 # of bars = (34,59 -0.333) +1= 34+1= 35 bars 502 # 5 To + 4 Bar Length = (34.59-0.333) = 34.257' # of bars = 4 503 #509" Bar Length = (5.83'-1.380+1.5-0.167) = 5.783' #of bars = (34.59 - 0.333) + 0.75 = 46 bars

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DATE

SHEET 2 OF 3 Rebai Quantities EAOG ZHTZOI Segment (10) H=12 RW#Z 0#6=0.75"= 0.0625" Pachel Washington 015-23-12 H= 9.11 B=5.83 C= 2.50 9"= 0.75 18"=1.5' X= 1.380 604D #6@9" (35 + 0.0625')=2.19' Bar Length=[(5.83-1.380+2.19)]-0.167=6.473 # of bars = (34.59-0.333) + 0.75' = 45+1= 46 bars 504 #5@12" Bar Length= (34.59-0.333) = 34.257 # of bars = (5.83 - 1.380 - 0.167) = 1 = (4+1) (2 sets) = 10 bars 505 # 5@9" Bar Length= (2.50+1)-0.167 = 3.33 # of bars= (34.59-0.333) + 0.75' = 45+1=46bars 506 #5@12" Bar Length= (34.59-0.333) = 34.257 # of bars = (2.50 - 0.167) + 1= (2+1)(2sets)= 6 bars 5065 #5@18" Bar Length = (34.59-0.333)= 34,257 # of bars = (9.11-0.333) + 1.5 = 5+1= 6 bars

SHEET 3 OF 3

Segment(10) H=12 L=34.59

Rebar Quantities ALC BY

EA 06-2HTZO.

Rachel Washington 5-24-12

H= 9.11 W= 8.33 4"= 0.333' 10'= 0.833' 16"= 1.33'

18"=1.5"

40ST #4@18"

Bar Length = (34.59-0.333)= 34.257

of bars = (9.11-0.333) -1.5 = 6+1= 7 bars

DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520-		SHEET / OF 3
Segment D H=8	Rebar Quantities	
H= 8.39 W= 7.25 B	Rachel Washinston 3=5.0 (=2.25' L	DATES-11-12 = 56'
2"= 0, 167' 3"= 0.25' 4 X = 1.350'	"= 0.333' 9"= 0.75"	F=1.33'
Bar Length = (8.39-0. Hook= (2.25+1.350		9.303
# of bars = $(56-0.333)$		bars
Bar Length = (8.39 + 1.3 # of bars = (56 - 0.333		
502 # 5 To+ 4 Bar Length = (56-0.33		
# of bars = 4 503 # 5 @ 9 "		
Bar Length = (5-1.350 -		
# of bars = (56-0.333):	0.75'= 74+1= 75	bars
POSTED BY DATE	POSTED TO	

QUANTITY CALCULAT							
DC-CEM-4801 (OLD HC-52 REV.	11/92) 7541-3520-0	1 12			SHEET	2 OF	3
Segment 1	H=8	Rebar LOCATION CALC. BY	r Quai	atitie t		EA 06 SEGREGATION	
\$ #6=0.75"=0.06	25'	Rayha	1 11)00	lai ach	197	DATE A	1.0
14 9 9 9 9		racre	n was	MI 1181	DV1	5-1	1-12
H = 8.39' B=5	.0 6=	2,25	9"=0	2.75	8"=	1.5 X	=1.3
604D #6@9" (35 × 0.	06251	- 2 19	/ / -	0,		
Bar Length=T	5.0-1.	350 +	2.191-	0.16	7 = 5	.673	
-							
# of bars = (56	- 0.333) : 0.7	5 = 7	14+1=	75	bars	
504 #5012"							
Bar Length= (5	6-0.33	3)= 5	5.67				
# of bars = (5.	1.350	1-0.1	67)-	= (3)	1)(2	sets)=	860
505 #5@911							
Bar Length= (?	25 +1) = 0 1	17-7	0001			
		0.1	6/- 2	.085			
# of bars = (56 -	0.333)	.0.75	7	4+1=	75	bars	
506 #5@12"							
	6-032	21-		,			
Bar Length=15							
# of bars = (2.	25-0.	167):	1=/21	1)/2,	ows):	= 6h	
5065 # 5@18"			L L			-	
2002							
Bar Length=	156-0	333)	= 50	67'			
# of bars = (8.	1-0.	253) =	-1,5'=	5 +1	=66	ars	
	DATE			POSTED TO			

SHEET 3 OF 3 Rebur Quantities EA 06 ZHT20
LOCATION RW# 4 SEGREGATION YES NO Segment 1) H=8 W=7.25' F=1.33' L=56 Rachel Washinston DATE 5-11-12 H = 8.39 4"= 0.333 10"= 0.833' 16"= 1.33' 18"= 1.5' 405T #4@18" Bar Length = (56-0.333) = 55.67 # of bars = (8.39-0.333) = 1.5'= 5+1=6 bars 601E #6@10" X 15'-0" Bar Length= 15' 507 #5@16" HSEF 1.33 + 0.94 + 1.33 = 3.60' Bar Length= (7.25-0.333)= 6.917' # of bars = (3.60-0.333) + 1.33 = (2+1)(2sets) = 66ars 508 # 5 21-0" @16" Bar Length = 2[(3.60-0.333)+2]= 10.534 # of bars = [(7.25-0.333) +1.33] = 5+1 = 6 bars

SHEET OF 3 LOCATION QUANTITIES EA 06 2HTZO1 Segment (2) H=10 11+80 to 12+56 " Washinston DATE 5-11-12 H=10.66 W=7.58' B=5.25' C= 2.33' L=76' 2"= 0.167' 3"= 0.25' 4"= 0.333' 9"= 0.75' F= 1.33' X=1.532 602C # 6@9" Bar Length= (10.66-0.167) + (1.33-0.25') = 11.573 HOOK= (2.33 + 1.532 -0.333) = 3.529" # of bars = (76-0.333) = 0.75' = 101 + 1 = 102 bars 501 #5@12" Bar Length = (10.66 + 1.33 - 0.333) = 11.657 # of bars = (76 + 0.333) - 1= 75+1= 76 bars 502 #5 To+4 Bar Length = (76-0.333) = 75.67 # of burs = 4 503 #569" Bar Length = (5.25 - 1.532 + 1.5 - 0.167) = 5.051 # of bars = (76-0.333) + 0.75' = 101 +1 = 102 bars

CEM-4801 (HC-52 REV. 11/92)

2 OF 3 Rebar Quantities EA 06-ZHTZO Segment(2) H=10 CALC. BY 0#6=0.75"=0.0625' Rachel Washington DATE 5-11-10 H = 10.66 B = 5.25' C = 2.33' 9"= 0.75' 18"= 1.5 X = 1.532604D #6@9" Bar Length= [5.25-1.532+2.19] -0.167=5.741 # of bars = (76-0.333) = 0.75'=101+1=102 bars 504 #5@12" Bar Length= (76-0.333) = 75.67 # 0 f bars = (5.25 - 1.532 - 0.167) = (3+1) (2005) = 8bars 505 # 509" Bar Length = (2.33+1)-0.167 = 3.163 # of bars = (76-0.333) + 0.75 = 101+1= 102 bars 506 #5@12" Bar Length= (76-0.333)= 75.67' # of bars = (2.33-0.167) = 1= (2+1)(2rows) = 6 bars 506S #5@ 18" Bar Length=(76-0.333)=75.67 #of bars= (10.66-0.333) -1.5'= 7+1= 8bars

Segment 2 H = 10 $L = 76$ $W = 7.25' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520-0	HEET 3 OF 3
Eighten (1) 1 = 10 10 10 10 10 10 10	IOD STAND	
$W = 7.25' \xi = 1.33' \text{CHR BY} \text{DATE}$ $H = 10.66 4'' = 0.333' 10'' = 0.833' 16'' = 1.33' 18'' = 1.5' \text{DATE}$ $H = 10.66 4'' = 0.333' 10'' = 0.833' 16'' = 1.33' 18'' = 1.5' \text{DATE}$ $18'' = 1.5' 10.66 -0.333' = 75.67' 10.66 -0.333' = 75.67' 10.66' 10.66' -0.333' = 1.5 = 6+1 = 7 \text{ bars}$ $1001E \neq 6 \otimes 10'' \times 15' - 0'' 10.60'' $		CECREOATION
$W = 7.25' \beta = 1.33' \text{CHC BY}$ $H = 10.66 4'' = 0.333' 10'' = 0.833' 16'' = 1.33'$ $18'' = 1.5'$ $4057 # 4018''$ $Bar Length = (76 + 0.333') = 75.67'$ $\# 0f bars = (10.66 - 0.333') = 1.5 = 6 + 1 = 7 bars$ $601E \# 6010'' \times 15' - 0''$ $Bar Length = 15$ $507 \# 5016''$ $Bar Length = (7.25 - 0.333) = 6.92'$ $\# 0f bars = (3.44 - 0.333) \div 1.33 = (2 + 1)(25ets) = 66ars$ $508 \# 52' - 0''$ $606''$ $606 \# 606''$ $607 \% 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$ $607 \# 606''$		NO 🗆
$H = 10.66$ $4" = 0.333' 0" = 0.833' 16" = 1.33' 18" = 1.5'$ $4051 # 4 @ 18"$ $Bar Length = (76 - 0.333') = 75.67'$ $\# \ of \ bars = (10.66 - 0.333') = 1.5 = 6 + 1 = 7 \ bars$ $601E \# 6 @ 10" \times 15' - 0"$ $Bar \ Length = 15$ $Bar \ Length = (7.25 - 0.333) = 6.92'$ $\# \ of \ bars = (3.44 - 0.333) \div 1.33 = (2 + 1)(25ets) = 6 \ bars$ $608 \# 5 \ 2' - 0"$ $609 \ Bar \ Length = 2 \ [(3.44 - 0.333) + 2] = 10.214'$	111-7 251 6 1	
18'' = 1, 5' 4051 # $4018''$ Bar Length = $(76 - 0.333) = 75.67'$ # of bars = $(10.66 - 0.333) = 1.5 = 6 + 1 = 7 bars$ $601E$ # $6010''$ × $15' - 0''$ Bar Length = 15 1507 # $5016''$ Bar Length = 15 # of bars = 15 # of bars = 15 1508 # 15 15	W-1. 65 F=1.33' CHABY	DATE
18'' = 1, 5' 4051 # $4018''$ Bar Length = $(76 - 0.333) = 75.67'$ # of bars = $(10.66 - 0.333) = 1.5 = 6 + 1 = 7 bars$ $601E$ # $6010''$ × $15' - 0''$ Bar Length = 15 1507 # $5016''$ Bar Length = 15 # of bars = 15 # of bars = 15 1508 # 15 15	4-10 66 44 0 0001 104 0 001	
Bar Length= $(76-0.333)$ = 75.67 # of bars = $(10.66-0.333)$ ÷ 1.5 = $6+1$ = 7 bars 601E # 6@10" x $15'-0$ " Bar Length= 15 # step = $1.33+0.78+1.33=3.44$ Bar Length= $(7.25-0.333)$ = 6.92 ' # of bars = $(3.44-0.333)$ ÷ $1.33=(2+1)(25et5)$ = 6 bars 508 # 5 $2'-0$ " Bar Length= $2[(3.44-0.333)]$ + $2[-10.214]$	11-10.00 4 = 0.333 10 = 0.833 16" = 1.	33
Bar Length= $(76-0.333)$ = 75.67 # of bars = $(10.66-0.333)$ ÷ 1.5 = $6+1$ = 7 bars 601E # 6@10" x $15'-0$ " Bar Length= 15 # step = $1.33+0.78+1.33=3.44$ Bar Length= $(7.25-0.333)$ = 6.92 ' # of bars = $(3.44-0.333)$ ÷ $1.33=(2+1)(25et5)$ = 6 bars 508 # 5 $2'-0$ " Bar Length= $2[(3.44-0.333)]$ + $2[-10.214]$	18"= 1.5'	
Bar Length= $(76-0.333)=75.67'$ # of bars = $(10.66-0.333)\div1.5=6+1=7$ bars $601E$ # $6@10" \times 15'-0"$ Bar Length= 15 # sep= $1.33+0.78+1.33=3.44$ Bar Length= $(7.25-0.333)=6.92'$ # of bars = $(3.44-0.333)\div1.33=(2+1)(25et5)=6$ bars 508 # 5 $2'-0"$ Bar Length= $2[(3.44-0.333)+2]=10.214'$		
# of bars = $(10.66 - 0.333) \div 1.5 = 6 + 1 = 7 \text{ bars}$ 601E # 6@ 10" x 15'-0" Bar Length = 15 Hstep = 1.33 + 0.78 + 1.33 = 3.44 Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(2 \text{ sets}) = 6 \text{ bars}$ 508 # 5 $2! = 0$ " Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$	405T # 4@18"	
# of bars = $(10.66 - 0.333) \div 1.5 = 6 + 1 = 7 \text{ bars}$ 601E # 6@ 10" x 15'-0" Bar Length = 15 Hstep = 1.33 + 0.78 + 1.33 = 3.44 Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(2 \text{ sets}) = 6 \text{ bars}$ 508 # 5 $2! = 0$ " Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
# of bars = $(10.66 - 0.333) \div 1.5 = 6 + 1 = 7 \text{ bars}$ 601E # 6@ 10" x 15'-0" Bar Length = 15 Hstep = 1.33 + 0.78 + 1.33 = 3.44 Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(2 \text{ sets}) = 6 \text{ bars}$ 508 # 5 $2! = 0$ " Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$	Bar Length= (76-0.333) = 75.67	
601E #6@10" x 15'-0" Bar Length=15 Hstep=1.33+0.78+1.33=3.44 Bar Length=(7.25-0.333)=6.92' # of bars=(3.44-0.333):1.33=(2+1)(25ets)=66ars 508 #5 2'-0" @16" Bar Length=2[(3.44-0.333)+2]=10.214'		,
601E #6@10" x 15'-0" Bar Length=15 Hstep=1.33+0.78+1.33=3.44 Bar Length=(7.25-0.333)=6.92' # of bars=(3.44-0.333):1.33=(2+1)(25ets)=66ars 508 #5 2'-0" @16" Bar Length=2[(3.44-0.333)+2]=10.214'	1	pars
Bar Length=15 Hstep=1.33+0.78+1.33=3.44 Bar Length= $(7.25-0.333)=6.92'$ # of bars= $(3.44-0.333)\div1.33=(2+1)(2)$ ets)=6 bars 508 # 5 $2'-0''$ Bar Length= $2[(3.44-0.333)+2]=10.214'$		
Bar Length=15 Hstep=1.33+0.78+1.33=3.44 Bar Length= $(7.25-0.333)=6.92'$ # of bars= $(3.44-0.333)\div1.33=(2+1)(2)$ ets)=6 bars 508 # 5 $2'-0''$ Bar Length= $2[(3.44-0.333)+2]=10.214'$	601E #6@10" x 15'-0"	
507 #5@16" Hstep=1.33+0.78+1.33=3.44 Bar Length= $(7.25-0.333)=6.92'$ # of bars= $(3.44-0.333)\div1.33=(2+1)(2sets)=6bars$ 508 #5 2'-0" Bar Length= $2[(3.44-0.333)+2]=10.214'$		
507 #5@16" Hstep=1.33+0.78+1.33=3.44 Bar Length= $(7.25-0.333)=6.92'$ # of bars= $(3.44-0.333)\div1.33=(2+1)(2sets)=6bars$ 508 #5 2'-0" Bar Length= $2[(3.44-0.333)+2]=10.214'$	Bar Lenath=15	
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		
Bar Length = $(7.25 - 0.333) = 6.92'$ # of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(25ets) = 6bars$ 508 # 5 2'-0" Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$	507 #5@16" Helon 1 23 1 0 70 1	
# of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(2sets) = 6bars$ 508 # $5\frac{2' - 0''}{0!6!'}$ Bar Length = $2[(3.44 - 0.333) + 2] = 10.214'$		33 = 3.44
# of bars = $(3.44 - 0.333) \div 1.33 = (2+1)(2) = 6 $ bars = $6 $ b	Bar Length = (7.25 - 0.333) = 6.92'	
Bar Length = $2[(3.44 - 0.333) + 2] = 10.214$		
Bar Length = $2[(3.44 - 0.333) + 2] = 10.214$	# of bars = (3.44-0.333) -1.33 = (2+1)/25	ets) = 6 bars
Bar Length = 2[(3,44-0.333)+2]=10.214	508 -4- 0 21-0"	
Bar Length = 2[(3,44-0.333)+2]=10.214	101611	
	Bar Length = 2 [13.44 - 0.332) + 27 - 10 210	4
# of bars = [(7.25 - 0.333) - 1.33] = 5 + 1 = 6 bars	10.21	
POSTED BY DATS = [1.25 + 0.333) = 1.33] = 5 + 1 = 6 bars		
POSTED BY DATE POSTED TO	TO+ bars = 1 (1.25 + 0.333) = 1.33 = 5 +1=	- 6 bars
	POSTED BY DATE POSTED TO	

Segment (3) H=12

SHEET OF 3 Rebar Quantities EA 06-24720 RW#4

12+56 to 12+66 Rachel Washinston

H= 12.77 W= 8.33' B= 5.83' G= 2.50 L= 10

DATE 5-10-12

2"= 0.167' 3"= 0.25' 4"= 0.333' 9"= 0.75' F = 1.5' X=1.532

602C #6@9"

Bar Length= (12,77-0.167) + (1.5-0.25) = 13.853

Hook = (2.5 + 1.532 - 0.333) = 3.699

of bars = (10 -0.333) = 0.75' = 13+1=14 bars

501 #5@12"

Bar Length = (12.77 + 1.50 - 0.333) = 13.937'

of bars = (10-0.333) +1=9+1=10 bars

502 #5 To+4

Bar Length = (10-0.333) = 9.67'

of bars = 4

503 #5@9"

Bar Length = (5.83-1.532+1.5-0.167) = 5.631

of bars = (10-0,333) + 0.75 = 13+1 = 14 bars

SHEET 2 OF 3 Segment 3 H=12 Rebar Quantities
L=10 CALC BY EA 06-24120 #6=0.75"=0.0625' Rachel Washington 015-10-12 H=12.77 B=5.83' C=2.50' 9"= 0.75' 18"=1.5' x=1.532 601D #689" (35x 0.0625') = 2.19' Bar Length= [(5.83'-1.532+2.19]-0.167=6.321 # of bars = (10-0.333) : 0.75 = 12+1= 13 bars 504 #5@12" Bar Length = (10-0.333) = 9.67' # of bars = (5.83-1.532-0.167):1=(4+1)(2sets)=10 bars 505 # 509" Bar Length = (2.50+1) - 0.167 = 3.33' # of bars = (10-0.333) = 0.75 = 12+1=13 bars 506 #5012" Bar Length = (10-0.333) = 9.67' # of bars = (2.50-0.167) = 1= (2+1)(2rows) = 6 bars 5065 #5@18" Bar Length = (10-0.333) = 9.67' # of bars = (12.77 -0.333) = 1.5' = 8+1= 96013

rus i Eu bi

DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION QUANTITY CALCULATIONS (of 3 Rebar Quantities EA 06 247201 Segment(1) LOCATION RW#6 13+37.23 to 13+45 Rachel Washington DATE 5-23-12 H= 12,74 W= 9.58' B= 6.583' C= 3.0' L= 7.7 2"= 0.167' 3"= 0.25 4"= 0.333' 7"= 0.583' 9"= 0.75" X=1.531 F=1.67 6020 #607" Bar Length= (12.74 - 0.167) + (1.67 - 0.25) = 13.993 Hook = (3.0 + 1.531 -0.333) = 4.198 # of bar = (7.77-0.333) + 0.583 = 12+1= 136ars 501 #5@12" Bar Length = (12.74 + 1.67 - 0.333) = 14.077 # of bais= (7,77-0.333) -1= 7 +1= 8 burs 502 #5 Tot4 Bar Length = (7.77-0.333) = 7.437 # of bars = 4 503 #5@7" Bar Length= (6.583-1.531+1.5-0.167)=6,385 # of bars = (7,77 -0.333) + 0.583 = 12+1= 136ars

POSTED BY

DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION QUANTITY CALCULATIONS SHEET 2 OF 3 Rebar Quantities EA 06 ZHTZO Segment(1) H=14 0#6=0.75"=0.0625" Rachel Washinston DATE 5-23-12 H=12.74' B=6.583' C=3.0 9"=0.75' 18# 1.5' X=1.531 7"=0.583 L=7.77 604D #6@7" (45 * 0.0625) = 2.81 Bar Length= [(6.583-1.531 + 2.81]-0.167 = 7.695' # of bars = 17.77-0.333) = 0.583' = 12+1= 13 bars 504 #5@12" Bar Length = (7.77 - 0.333) = 7.437' #of bars = (6.583-1.531-0.167) = 1= (4+1) (2 sets) = 10 bars 505 #5@7" Bar Length= (3.0+1)-0.167 = 3.833 # of bars= (7677 + 0.333) - 0.583 = 12+1= 13 bars 506 #5@12" Bar Length= (7.77-0.333)= 7.437 # of bars = (3.0-0.167) + 1 = (3+1)(25ets) = 86ars 5065 #5@18" Bar Length= (7.77-0.333)= 7.437' #ofbars=(12,74-0.333)+1.5 = 8+1= 9bars

POSTED B

DATE

SHEET 3 OF 3 Rebar Quantities EA 06 ZHTZOI Segment 1) H=14 LOCATION RW#6 L=22.7' Rachel Washington DATES-23-12 W=9.58' F=1.67' H= 12.74 4 = 0.333 10 = 0.833 16 = 1.33 18 = 1.5 40ST #4@18" Bar Length= (7.77-0.333)= 7.437 # of bars = (12.74 - 0.333) + 1.5 = 8+1 = 9 bars GOIE #6@10" x 15'-0" 507 #5@16" Hstep=1.67 + 1.91+1.67=5.25 Bar Length= (9.58-0.333) = 9.247' # of bars = (5.25 - 0.333) + 1.33' = (3+1)(2sets) = 8burs 508 #5 21-011 Bar Length= 2/(5.25-0.333)+27= 13.834 # of bars = [(9.58 - 0.333) + 1.33 = 7+1= 8 bars

SHEET OF 3 Segment 2 H=16 Rebar Quantities EA 06 2HT201 CALC. BY 13+45+14+00 Rachel Washington 5-23-12 H= 16,42 W=10.75' B=7.25' 4=3.50' L=55 2"= 0.167' 3"= 0.25' 4"= 0.333 6"= 0.50 F=1.671 X=1,684 7020 #786" Bar Length = (16.42-0.167)+(1.67-0.25)= 17.973 HOOK = (3.5 + 1.684' - 0.333) = 4.851' # of bars = (55-0.333) = 0.50 = (19) +1 = 55 bars 501 #5@12" Bar Length = (16.42 + 1.67-0.333) = 17.757 # of bars= (55-0.333) - 1= 59+1= 55bars 703C short #786" h. = 5.75" Bar Length= (5.75-0.167)+(1.67-0.25)=7.003' HOOK = (3.5+1.684-0.333) = 4.851 # of bars = (55-0.333) = 0.50=(12)+1=55 bars 502 #5 To + 4 Bar Length = (55-0,333) = 54.67' #ofbars= 4 503 #506" Bar Length = (7.25-1.684 +1.50-0.167)=6.899 # of bars= (55-0.333) +, 0.5=109 +1=110 bars

QUANTITY CALCULATIONS
DC-GEM-4801 (OLD FIG-52 REV. 11/92) 7/ 2 OF 3 Rebar Quantities EA 06 24T20 Segment (2) H=16 LOCATION RW #6 0#6=0.75"= 0.0625' Rachel Washington DATE 5-23-12 H=16.42 B=7.25' C=3.50' 6"=0.50' 18=1.5' L=55 X=1.684 (45 * 0.0625)= 2.81 904D # 986" Bar Length=[17.25-1.684 + 2.81)]-0.167=8.209 # of bars = (55 +0.333) +0.5 = 109 +1 = 110 bars 504 #5012" Bar Length = (55-0.333) = 54.67' # of bars = 17.25 - 1.684 -0.167) -1 = (5+1) (2rows) = 12bars 505 #506" Bar Length = (3.50+1)-0.167 = 4.33 # of bars = (55-0.333) + 0.5=109+1=110 bars 506 #5@12" Bar Length= (55-0.333) = 54.67' # of bars = (3.50-0.167) - 1= (3+1)(2 rows) = 8 bars 5065 #5@18" zone 1 Bar Length = (55-0.333)=54.67' #ofbars = (16.42 -0.333) -1.5 = 5+1= 66ars 5065 # 5012" zone 2

Bar Length = (55-0.333) = 54.67

of bais = / 16.42 - 0.333) +1 = 7+1=86ars

QUANTITY CALCULATIONS
DC-CEM-4801 (OLD HC-52 REV. 11/92) 75 SHEET 3 OF 3 Segment 2 H= 16

Rebar Quantities

LOCATION RW#6

CALC BY EA 06 ZHT201 W=10.75' L=55 Rachel Washinston 5-23-12 H= 16.42 4"= 0.333' 10"= 0.833' 16"= 1.33' 40ST # 4@ 18" Bar Length = (55-0.333) = 54.67' #of bars = (16.42 - 0.333) = 1.5'=10+1= 11.6ars 601E #6@10" x 15-0" Bar Length= 15'

POSTED BY

DAT

Segment 3 H=18 Rebur Quantities EA 06 2HTZOI 14+00+0 14+39.78 Rachel Washinston DATE 5-10-12 H=16.56 W=12.0 B=8.0' C=4.0' L=34.78 2"=0.167' 3"= 0.25' 4"= 0.333 5"= 0.417 F=1.75" X= 1.690 7020 #705" Bar Length= (16.56-0.167) + (1.75-0.25) = 17.893 Hook (4.0 + 1.690 -0.333) = 5.357' #of bars = (34.78 - 0.333) + 0.417 = (82) +1 = 42 bars 501 #5@12" Bar Length= (16.56 + 1.75 - 0.333)= 17.977 #ofbars=(34.78-0.333) +1= 34+1= 35 bars 703c Short #705" h=5.75' Bar Length= (5.75-0.167) + (1.75-0.25) = 7.083 Hook = (4.0 + 1.690 -0.333) = 5.357 # of bars = (34.78 - 0.333) + 0.417 = (82) + 1 = 42 bars 502 #5 Tot 9 Bar Length = (34.78-0.333) = 34.447 #ofbars = 4 503 #5 86" Bar Length = (8.0-1.690 +1.75-0.167) = 7.893 # of bars = (34.78-0.333) = 0.417 = 82 H= 83 bars

SHEET 2 OF 3 Rebar Quantities EA 06 ZHTZO Segment 3 H=18 RW#6 0#6=0.75"=0.0625' Rachel Washinston H = 16.56' B = 8.0' C = 4.0 5"= 0,417' 18"= 1.5" X = 1.690 (45 * 0.0625') = 2.81' 1=34.78 8040 #8@5" Bar Length=[18.0-1.690 + 2.81]-0.167=8.953 # of bars = (34.78 - 0.333) + 0.417" = 82+1=836ars 504 #5012" Bar Length= (34.78-0.333) = 34.447 # of bars = (8.0 - 1.690 - 0.167) - = (6+1)(2rows) = 14 bar 505 # 505" Bar Length= (4.0+1)-0.167 = 4.833 # of bais = (34.78-0.333) = 0.417'= 82+1=83 bars 506 #5@12" Bar Length= (34.78-0.333)= 34.447 # of bars = (4.0-0.167): 1= (4+1)(2rows)=10 bars 506S #5@18" zonel Bar Length= (34.78-0.333)= 34.447 # of bars = (16.56 - 0.332) = 1.5 = 5+1 = 6 bars 5065 #501211 Zone 2 Bar Length = (34.78 + 0.333) = 34.447 # of bars= (16.56-0.333) -1 = 8+1= 96ars

QUANTITY CALCULATIONS SHEET 3 OF 3 Segment 3 H=18 Rebar Quantities CALC BY Rachel Washinston 5-11-1 W=12.0 L=40 H=17.56 4"=0.333' 10"=0.833' 14"=1.33' 405T # 4@18" Bar Length= (34.78-0.333)=34.447' # of bars= (16.56-0.332) - 1.5=11+1=12 bars 601E #6@10" x 15'-0" Bar Length = 15'

DG-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520-0

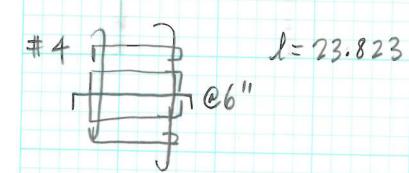
JOB STAME

Pedestal

Rebar Quantity RW# 4+#6 EA 06-2HTZO

ATE

Rachel Washington 5-29-12



ILLIAIIVIIVO	WALL 1,3,3	
RETAINING	WALL 2,4,6	

RCHITECTURAL TREAT	,				TOP OF	TOP OF			Page 1 of 1		
	BEGINNING STATION	ENDING STATION	Length (If)	Height (ft)	SIDEWALK (ft)	SIDEWALK - 1 FOOT (ft)	TOP OF Wall Elevation (ft) @ Beginning Sta	HEIGHT (ft) AT BEGINNING STATION	AREA (sqft)		
RETAINING WALL 1	12 + 00	15 + 75.84	375.84	0.66666667			282.06		250.56		
			375.84				269.92				
									251 sqft		
				TOP O	F SIDEWALK -	1 FOOT					
RETAINING WALL 3	11 + 17.46	11 + 60.00	42.54	8	284.52	283.52	287.9	4.38	206.11		
	11 + 60.00	12 + 55.00	95.00	10	283.5	282.5	287.81	5.31	596.13		
	12 + 55.00	12 + 63.83	8.83	12	281.38	280.38	287.62	7.24	64.68		
	12 + 63.83		146.37		281.19	280.19	287.6	7.41			
									867 sqft		
RETAINING WALL 5	13 + 32.96	13 + 60.00	27.04	12	279.13	278.13	287.6	9.47	277.97		
		•	70.24	16	278.05	277.05	288.14	11.09	926.42		
NEITHING WILES	13 + 60.00	14 + 30.21	70.21	10							
NEDWING WILLS	13 + 60.00 14 + 30.21	14 + 30.21	97.25	10	275.24	274.24	289.54	15.3	1204 sqft		
NEW WILLES		14 + 30.21		10			289.54	15.3		TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT	14 + 30.21		97.25]			289.54	15.3		TOTAL RW 1,3,5 =	2322 s
	14 + 30.21		97.25	0.66666667			289.54 282.55	15.3		TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT	14 + 30.21 TMENT, RETAIN	ING WALL 2,4,	97.25					15.3	1204 sqft	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT	14 + 30.21 TMENT, RETAIN	ING WALL 2,4,	97.25 6 375.21					15.3	1204 sqft	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT	14 + 30.21 TMENT, RETAIN	ING WALL 2,4,	97.25 6 375.21					15.3	1204 sqft 250.14	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT	14 + 30.21 TMENT, RETAIN	ING WALL 2,4,	97.25 6 375.21					3.34	1204 sqft 250.14	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT RETAINING WALL 2	14 + 30.21 TMENT, RETAIN 11 + 99.38	ING WALL 2,4,	97.25 .6 .375.21 .375.21	0.66666667	275.24	274.24	282.55		1204 sqft 250.14 250 sqft	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT RETAINING WALL 2	14 + 30.21 TMENT, RETAIN 11 + 99.38	ING WALL 2,4, 15 + 74.59	97.25 .6 .375.21 .375.21 .56.00	0.66666667	275.24	274.24	282.55	3.34	250.14 250 sqft 272.44	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT RETAINING WALL 2	14 + 30.21 TMENT, RETAIN 11 + 99.38 11 + 24 11 + 80	ING WALL 2,4, 15 + 74.59 11 + 80 12 + 56	97.25 .6 .375.21 .375.21 .56.00 .76.00	0.66666667 8.00 10.00	275.24 285.76 282.71	274.24 284.76 281.71	282.55 288.1 288.1	3.34 6.39	250.14 250 sqft 272.44 562.40	TOTAL RW 1,3,5 =	2322 s
RCHITECTURAL TREAT RETAINING WALL 2	14 + 30.21 FMENT, RETAIN 11 + 99.38 11 + 24 11 + 80 12 + 56	ING WALL 2,4, 15 + 74.59 11 + 80 12 + 56	97.25 .6 375.21 375.21 56.00 76.00 10.00	0.66666667 8.00 10.00	285.76 282.71 280.69	284.76 281.71 279.69	282.55 288.1 288.1 288.1	3.34 6.39 8.41	250.14 250 sqft 272.44 562.40	TOTAL RW 1,3,5 =	2322 \$
RCHITECTURAL TREAT RETAINING WALL 2	14 + 30.21 FMENT, RETAIN 11 + 99.38 11 + 24 11 + 80 12 + 56	ING WALL 2,4, 15 + 74.59 11 + 80 12 + 56	97.25 .6 375.21 375.21 56.00 76.00 10.00	0.66666667 8.00 10.00	285.76 282.71 280.69	284.76 281.71 279.69	282.55 288.1 288.1 288.1	3.34 6.39 8.41	250.14 250 sqft 272.44 562.40 85.35	TOTAL RW 1,3,5 =	2322 :
RCHITECTURAL TREAT RETAINING WALL 2 RETAINING WALL 4	14 + 30.21 FMENT, RETAIN 11 + 99.38 11 + 24 11 + 80 12 + 56	ING WALL 2,4, 15 + 74.59 11 + 80 12 + 56	97.25 .6 375.21 375.21 56.00 76.00 10.00	0.66666667 8.00 10.00	285.76 282.71 280.69	284.76 281.71 279.69	282.55 288.1 288.1 288.1	3.34 6.39 8.41	250.14 250 sqft 272.44 562.40 85.35	TOTAL RW 1,3,5 =	2322 9
RCHITECTURAL TREAT RETAINING WALL 2 RETAINING WALL 4	14 + 30.21 FMENT, RETAIN 11 + 99.38 11 + 24 11 + 80 12 + 56 12 + 66	11 + 80 12 + 56 12 + 66	97.25 .6 375.21 375.21 56.00 76.00 10.00 142.00	8.00 10.00 12.00	285.76 282.71 280.69 280.44	284.76 281.71 279.69 279.44	282.55 288.1 288.1 288.1 288.1	3.34 6.39 8.41 8.66	250.14 250 sqft 272.44 562.40 85.35 920 sqft	TOTAL RW 1,3,5 =	2322 9
RCHITECTURAL TREAT RETAINING WALL 2 RETAINING WALL 4	14 + 30.21 TMENT, RETAIN 11 + 99.38 11 + 24 11 + 80 12 + 56 12 + 66	11 + 80 12 + 56 12 + 66	97.25 .6 375.21 375.21 56.00 76.00 10.00 142.00	8.00 10.00 12.00	285.76 282.71 280.69 280.44	284.76 281.71 279.69 279.44	282.55 288.1 288.1 288.1 288.1 288.1	3.34 6.39 8.41 8.66	250.14 250 sqft 272.44 562.40 85.35 920 sqft	TOTAL RW 1,3,5 =	2322 9
RCHITECTURAL TREAT RETAINING WALL 2	14 + 30.21 TMENT, RETAIN 11 + 99.38 11 + 24 11 + 80 12 + 56 12 + 66 13 + 37.23 13 + 45	11 + 80 12 + 56 12 + 66 13 + 45 14 + 00	97.25 .6 375.21 375.21 56.00 76.00 10.00 142.00 7.77 55.00	8.00 10.00 12.00 14.00 16.00	285.76 282.71 280.69 280.44 278.73 278.54	284.76 281.71 279.69 279.44 277.73 277.54	282.55 288.1 288.1 288.1 288.1 288.1 289.39 289.39	3.34 6.39 8.41 8.66	250.14 250 sqft 272.44 562.40 85.35 920 sqft 91.45 715.00	TOTAL RW 1,3,5 =	2322 s

MISCELLANEOUS ITEMS

	BEGINNING	ENDING
	STATION	STATION
RETAINING WALL 1	12 + 00	15 + 75.84
RETAINING WALL 3	11 + 17.46	12 + 63.83
RETAINING WALL 5	13 + 32.96	14 + 30.21
RETAINING WALL 2	11 + 99.38	15 + 74.59
RETAINING WALL 4	11 + 24	12 + 66
RETAINING WALL 6	13 + 37.23	14 + 34.78

MISC #1 MINOR CONCRETE (GUTTER)

	BEGINNING	ENDING	
	STATION	STATION	LENGTH
RETAINING WALL 3	11 + 17.46	12 + 63.83	146.37
RETAINING WALL 5	13 + 32.96	14 + 30.21	97.25
		_	

MINOR CONCRETE GUTTER = 243.6 LF

	BEGINNING	ENDING		
	STATION	STATION	LENGTH	
RETAINING WALL 4	11 + 24	12 + 66	142	
RETAINING WALL 6	13 + 37.23	14 + 34.78	97.55	
	MINOR CONCRE	MINOR CONCRETE GUTTER =		LF

MISC #2 METAL PICKET RAILING

	BEGINNING	ENDING		
	STATION	STATION	LENGTH	
TRANSITION BEFORE RW1	11 + 18	12 + 00	82	
TRANSITION @ END RW1	15 + 75	16 + 75	100	
RETAINING WALL 1	12 + 00	15 + 75.00	375	
RETAINING WALL 3	11 + 17.46	12 + 63.83	146.37	
RETAINING WALL 5	13 + 32.96	14 + 30.21	97.25	
	METAL PICKET F	RAILING =	800.6	LF

	BEGINNING	ENDING		
	STATION	STATION	LENGTH	
TRANSITION BEFORE RW2	11 + 50	11 + 99	49.38	
TRANSITION @ END RW2	15 + 75	16 + 75	100	
RETAINING WALL 2	11 + 99.38	15 + 75.00	375.62	
RETAINING WALL 4	11 + 24	12 + 66	142	
RETAINING WALL 6	13 + 37.23	14 + 34.78	97.55	
	METAL PICKET	RAILING =	764.550	Ĺ

MISC #3 CONCRETE BARRIER (TYPE 60D MODIFIED)

DISTRICT ITEM

	BEGINNING-	ENDING-		
	STATION	STATION	LENGTH	
RETAINING WALL 1	12 + 00	15 + 75.84	375.84	
	CONCRETE BARF			375.84 LF

	BEGINNING-	ENDING-		
	STATION	STATION	LENGTH	
RETAINING WALL 2	11 + 99.38	15 + 74.59	375.21	
	CONCDETE DADE	DIED /TVDE 60D I	MODIEIED) -	275 21 15

PREPARE AND STAIN C	ONCRETE, RETAI	NING WALL 2,	4,6	_					
	BEGINNING STATION	ENDING STATION	Length (If)	AREA 1 (sqft)	AREA 2 (sqft)	AREA 3 (sqft)	AREA 4 (sqft)	AREA 5 (sqft)	AREA (sqft)
RETAINING WALL 4	11 + 24	12 + 66	142.00	48.1905	54.04	60.42	67.84	75.43	305.92
	•	•	•	•		•	•	Retaining Wall #4 =	305.9 CY
									•
RETAINING WALL 6	13 + 37.23	14 + 35	97.55	80.02	90.91	100.09	109.59	119.14	499.75
	•			•			•	Retaining Wall #6 =	499.7 CY

TOTAL RW 2,4,6 = 806 sqft

REMOVAL RETAINING W	ALL at Fresno St	reet Underpas	s									
Assume limits for Remo	val Sections E,F,G	i,H,J,K. Assum	e batter negli	ble.								
	SECTION	Length (If)	Design H (ft)	Bottom of Ftg Elev (ft)	TOP OF Wall Elevation (ft) @ Beginning Sta	FOOTING HEIGHT (ft) "F"	FOOTING WIDTH (ft) "W"	Key Volume (cy)	Step Volume (cy)	STEM CONCRETE (cy)	FOOTING CONCRETE (cy)	VOLUME (cy)
RETAINING WALL 1	E	30	16	275.33	292	1.17	9.00	5.93	0.69	17.23	11.67	35.51
(Fresno Street Rt)	F	30	14	277.4	292	1.17	8.00	5.19	0.54	14.93	10.37	31.02
ajacent to RW 2,4,6	G	20	12	279.23	292	1.17	7.17	2.96	0.35	8.60	6.19	18.10
	Н	20	10	280.53	292	1.17	6.17	1.23		7.63	5.33	14.20
						AVE H (ft)	WIDTH (ft) (assume "B" of H=8)	Assumed Key Volume (sqft)				
	J	30	GW	283.3	292	8.033	3.50	2.00				33.46
	К	20	GW	285	290	5.00	3.50	2.00				14.44
										"Retaining W	/all #1" =	146.7 CY

(at Fresno Street Underpass)

TOTAL "RW 1" Concrete Removal =

STAT	IONING								Page 1 of 1
			TOP OF WALL 2 ELEV (ft) at						Volume from Top of
R	W 2		beginning Sta (assume linear						wall to top of lowe
		Bottom of Ftg Elev (ft))	OG ELEVATION (ft) ave	Length (ft)	KEY Concrete Volume (CY)	EXCAVATION (cy)	Volume of Retaining Wall (cy)	wall (cy)
11 + 99.38	12 + 66	269.92	283.37	287	67	4.93	270.01	68.75	138.17
12 + 66	12 + 80	270.92	280.94	286.5	14	1.04	37.78	12.30	
12 + 80	13 + 37.23	266.17	280.43	285	57	4.24	266.58	68.18	
13 + 37.23	13 + 60	267.17	278.35	283	23	1.69	11.01	23.87	assume = 0
13 + 60	14 + 34.78	263	277.52	277.87	75	5.54	61.54	89.98	assume = 0
14 + 34.78	14 + 80	264	274.80	275.32	45	3.35	154.93	46.62	
14 + 80	15 + 20	259.5	273.15	273.45	40	2.96	191.04	46.52	
15 + 20	15 + 74.59	259.5	271.70	272.5	55	4.04	190.66	53.28	
15 + 74.59			269.71	271					
			269.71		375		1183.56		
l	W 4								
11 + 24	11 + 80.00	278.38	288.1	287	56	1.84	153.73	44.72	
11 + 80.00	11 + 99.38	276.11	288.1	287	19.38	0.64	67.05	17.78	
11 + 99.38	12 + 56	276.11	288.1	287	57	4.19	218.94	54.73	
12 + 56.00	12 + 66	274	288.1		10	0.74	55.80	11.84	
12 + 66			288.1		142				
							495.5		
R	W 6								
13 + 37.23	13 + 60	272.5	289.4	282	23	1.69	181.42	37.79	
13 + 60	13 + 80	272.5	289.47	282	20	1.48	171.85	35.07	
13 + 80	14 + 00	270.42	289.53	280	20	1.48	194.84	37.19	
14 + 00	14 + 34.78	270.42	289.59	279.39	35	2.58	363.89	68.04	
14 + 34.78			289.70		98	7.23			
							911.99		
				_		49.66	2591.07	716.64	138.1

Assume Backfill = Excavation - Vol RW Comcrete - Vol top to top of walls

RETAINING WALL 2, 4,6 BACKFILL = 1687 CY

STA	TIONING]													Page 1 of 2
	RW 2		Ave Sidewalk Elev (ft) top of wall	Ave Sidewalk Elev (ft) Gutter	TOP OF WALL 2 ELEV (ft) at beginning Sta (assume linear)	OG ELEVATION (ft) ave	Design H (ft)	Length (ft)	"W"	Ave Height Section 1 (ft)	Ave Height Section 2 (ft)	Ave Height Section 3 (ft)	"C"	Stem Width (ft)	"F"
11 + 99.38	12 + 66	269.92	280.77	276.72	283.37	287	10	67	7.50	6.80	17.18	calc'd in wall 4	2.25	1.42	1.33
12 + 66	12 + 80	270.92	279.34	274.55	280.94	286.5	10	14	7.50	3.63	9.77		2.25	1.42	1.33
12 + 80	13 + 37.23	266.17	277.91	272.38	280.43	285	12	57	9.50	6.21	13.22		2.75	1.50	1.33
13 + 37.23	13 + 60	267.17	276.2125	270.65	278.35	283	12	23	9.50	3.48	9.77	calc'd in wall 6	2.75	1.50	1.33
13 + 60	14 + 34.78	263	274.515	268.93	277.52	277.87	12	75	9.50	5.93	12.16	calc'd in wall 6	2.75	1.50	1.33
14 + 34.78	14 + 80	264	273.07	268.05	274.80	275.32	12	45	9.50	4.05	9.98		2.75	1.50	1.33
14 + 80	15 + 20	259.5	271.625	267.18	273.15	273.45	12	40	9.50	7.68	12.93		2.75	1.50	1.33
15 + 20	15 + 74.59	259.5	269.79	266.97	271.70	272.5	10	55	7.50	7.47	11.20		2.25	1.42	1.33
15 + 74.59					269.71	271									
					269.71			375							
11 + 24	RW 4	278.38	Ave Sidewalk Elev (ft) Gutter 287.1	Ave Sidewalk Elev (ft) mid wall 284.28	TOP OF WALL 4 ELEV (ft) at beginning Sta 288.1	287	8	56	6.50			8.72	2.00	1.33	1.33
11 + 80.00	11 + 99.38	276.11	287.1	282.93	288.1	287	10	19.38	6.50			10.99	2.00	1.42	1.33
11 + 99.38	12 + 56	276.11	287.1	281.58	288.1	287	10	57	7.50	alc'd in wall 2	calc'd in wall 2	10.99	2.25	1.42	1.33
12 + 56.00	12 + 66	274	287.1	281.58	288.1		12	10	9.50	alc'd in wall 2	calc'd in wall 2	13.10	2.75	1.50	1.33
12 + 66					288.1			142							
	RW 6		Ave Sidewalk Elev (ft) Gutter	Ave Sidewalk Elev (ft) mid wall	TOP OF WALL 6 ELEV (ft) at beginning Sta										
13 + 37.23	13 + 60	272.5	288.435	278.375	289.4	282	14	23	12.50	alc'd in wall 3	calc'd in wall 2	15.94	3.00	1.58	1.67
13 + 60	13 + 80	272.5	288.5	277.635	289.47	282	16	20	13.50		calc'd in wall 2	16.00	4.00	1.67	1.67
13 + 80	14 + 00	270.42	288.56	276.86	289.53	280	16	20	13.50		calc'd in wall 2	18.14	4.00	1.67	1.67
14 + 00	14 + 34.78	270.42	288.645	275.78	289.59	279.39	18	35	14.50		calc'd in wall 2	18.23	4.00	1.75	1.67
14 + 34.78					289.70			98			-				

RETAINING WALL 2,4,6 STRUCTURE EXCAVATION 06-2HT201 CALC BY S. MORIMOTO

RW 2,4,6 CONTIN	NUED			
Ave Width	Ave Width	Ave Width		SECTION EXCAVATION
Section 1 (ft)	Section 2 (ft)	Section 3 (ft)	KEY EXCAVATION (CY)	(cy)
3.25	5.08	Section 5 (it)	4.93	270.01
3.25	6.25		1.04	37.78
3.75	7.75		4.24	266.58
3.75	7.7.0		1.69	11.01
3.75			5.54	61.54
3.75	7.75		3.35	154.93
3.75	7.75		2.96	191.04
3.25	6.25		4.04	190.66
0.120	0.20			
				1183.56
		8.50	1.84	153.73
		8.50	0.64	67.05
		9.50	4.19	218.94
		11.50	0.74	55.80
				495.5
		42.50	1.60	104.42
		13.50		181.42
		14.50		171.85
		14.50		194.84
		15.50		363.89
			7.23	011.00
				911.99
			40.55	2640.74
			49.66	2640.74

RETAINING WALL 2,4,6 EXCAVATION = 2641 cy

Page 2 of 2

STRUCTURAL CONCRET	E, RETAINING W	ALL 2,4,6												
	BEGINNING STATION	ENDING STATION	Length (If)	Design H (ft)	Bottom of Ftg Elev (ft)	TOP OF Wall Elevation (ft) @ Beginning Sta	FOOTING HEIGHT (ft) "F"	FOOTING WIDTH (ft) "W"	Key Volume (cy)	Step Volume (cy)	BATTER WIDTH (1:24) (ft)	STEM CONCRETE (cy)	FOOTING CONCRETE (cy)	VOLUME (cy)
RETAINING WALL 2	11 + 99.38	12 + 40.00	40.62	10.00	272.5	282.55	1.33	7.58	1.30	0.56	1.34	14.44	15.21	31.51
	12 + 40.00	12 + 80.00	40.00	12.00	270.5	281.51	1.50	8.33	2.96	0.77	1.37	15.82	18.52	38.08
	12 + 80.00	13 + 20.00	40.00	14.00	268	280.48	1.67	9.58	2.96	0.53	1.43	18.54	23.66	45.70
	13 + 20	13 + 40.00	20.00	14.00	266.5	279.46	1.67	9.58	1.48	0.53	1.46	10.04	11.83	23.88
	13 + 40	13 + 60.00	20.00	14.00	265	278.91	1.67	9.58	1.48		1.50	11.02	11.83	24.33
	13 + 60	13 + 80.00	20.00	16.00	265	278.26	1.67	10.75	1.48	0.80	1.47	10.25	13.27	25.80
	13 + 80.00	14 + 40.00	60.00	16.00	263	277.50	1.67	10.75	4.44	0.53	1.49	32.18	39.81	76.98
	14 + 40	15 + 00.00	60.00	14.00	261.66	275.14	1.67	9.58	4.44	0.77	1.44	28.86	35.49	69.57
	15 + 00	15 + 40.00	40.00	14.00	259.5	272.78	1.67	9.58	2.96		1.45	19.65	23.66	46.28
	15 + 40.00	15 + 74.59	34.59	12.00	259.5	271.20	1.50	8.33	2.56		1.40	14.79	16.01	33.36
	15 + 74.59		375.21			270.03			26.09			175.59	209.31	
	15 + 74.59		375.21			270.03			26.09			175.59 Retaining Wa		415.5 CY
	15 + 74.59		375.21			270.03			26.09					415.5 CY
RETAINING WALL 4	15 + 74.59 11 + 24	11 + 80	375.21 56.00	8.00	278.38	270.03	1.33	7.25	1.81	0.61	1.35			415.5 CY 42.90
RETAINING WALL 4		11 + 80 12 + 56		8.00 10.00	278.38 276.11		1.33 1.33	7.25 7.58		0.61 0.59	1.35 1.44	Retaining Wa	all #2 =	
RETAINING WALL 4	11 + 24		56.00			288.1			1.81			Retaining Wa	all #2 = 20.05	42.90
RETAINING WALL 4	11 + 24 11 + 80	12 + 56	56.00 76.00	10.00	276.11	288.1 288.1	1.33	7.58	1.81 2.47		1.44	20.43 36.66	20.05 28.46	42.90 68.18
RETAINING WALL 4	11 + 24 11 + 80 12 + 56	12 + 56	56.00 76.00 10.00	10.00	276.11	288.1 288.1 288.1	1.33	7.58	1.81 2.47 0.74		1.44 1.53	20.43 36.66 5.89	20.05 28.46 4.63 53.14	42.90 68.18
RETAINING WALL 4	11 + 24 11 + 80 12 + 56	12 + 56	56.00 76.00 10.00	10.00	276.11	288.1 288.1 288.1	1.33	7.58	1.81 2.47 0.74		1.44 1.53	20.43 36.66 5.89 62.98	20.05 28.46 4.63 53.14	42.90 68.18 11.26
RETAINING WALL 4 RETAINING WALL 6	11 + 24 11 + 80 12 + 56	12 + 56	56.00 76.00 10.00	10.00	276.11	288.1 288.1 288.1	1.33	7.58	1.81 2.47 0.74		1.44 1.53	20.43 36.66 5.89 62.98	20.05 28.46 4.63 53.14	42.90 68.18 11.26
	11 + 24 11 + 80 12 + 56 12 + 66	12 + 56 12 + 66	56.00 76.00 10.00 142.00	10.00 12.00	276.11 274	288.1 288.1 288.1 288.1	1.33 1.50	7.58 8.33	1.81 2.47 0.74 5.02	0.59	1.44 1.53	20.43 36.66 5.89 62.98 Retaining Wa	20.05 28.46 4.63 53.14	42.90 68.18 11.26
	11 + 24 11 + 80 12 + 56 12 + 66	12 + 56 12 + 66	56.00 76.00 10.00 142.00	10.00 12.00	276.11 274 274	288.1 288.1 288.1 288.1	1.33 1.50	7.58 8.33 9.58	1.81 2.47 0.74 5.02	0.59	1.44 1.53	20.43 36.66 5.89 62.98 Retaining Wa	20.05 28.46 4.63 53.14 31!#4 =	42.90 68.18 11.26 122.3 CY
	11 + 24 11 + 80 12 + 56 12 + 66 13 + 37.23 13 + 45	12 + 56 12 + 66 13 + 45 14 + 00	56.00 76.00 10.00 142.00	10.00 12.00 14.00 16.00	276.11 274 274 274 270.42	288.1 288.1 288.1 288.1 289.39 289.39	1.33 1.50 1.67 1.67	7.58 8.33 9.58 10.75	1.81 2.47 0.74 5.02 0.58 4.07	0.59	1.44 1.53 1.57 1.73	20.43 36.66 5.89 62.98 Retaining Wa	20.05 28.46 4.63 53.14 all #4 =	42.90 68.18 11.26 122.3 CY 11.53 88.93

TOTAL RW 2,4,6 = 699 CY

CHECKER QUANTITIES EA 06-2HT201 RETAINING WALL 2,4,6

JOP STAME

06-247201 Architectural Treatment Quantity GRG

5/2012

RW#4

(4.47)+ 8.51)(142')= 921.6 42

RW # 6

 $(11.6 + 15.59)(97.55) = 1326.19 24^{2}$ (2162.5764^{2})

Rest 4 Prepare and Stain Concrete Quantity
47.8 + 54.03 + 60.70 + 67.91 + 75.43 = 305.87 ft

RW#6 80,02+90,9+100,19+109.58+119.14=499.83 ft 5, 805.7 ft²

Architectural Treatment 2 W#2 (.67)(375.211 = 251.39 Ct2

POSTED BY

Cets 489 maio nel 90 y memo

LAA

14 43 Tel. 3 Y

CHECKER

06-2HT201

QUANTITY

GRG 5/2012

Metal Picket	Railing		
	Begin	End	Total
Location	Station	Station	Length Ft.
RW # 2	1150	1675	525
RW # 4	1124	1266	142
RW # 6	1337.23	1434.78	97.55
		Total Lengt	764.55

STATE OF CALIFORNIA-DEPARTMENT OF TRANSPORTATION BAR REINFORCING SUMMARY

Wall 2, 4, 6 O 6 Fresno BAR SIZE SUPERSTRUCTURE SUBSTRUCTURE BAR SIZE ESTIMATE CHECK ESTIMATE INT DIAPHRAGM RAIL HINGE L L L ES L	PTELLET		REINGENO	ΕΔ	NSTRICT	COLINITY	ESTIMAT	the Section to	rorwara 10	ESTIMATING SECTION TO FORWARA TO RE FENAING FILE
BAR SIZE SUPERSTRUCTURE SUBSTRUCTURE RETAINING WALLS ESTIMATE CHECK ESTIMATE S90 3841 39 036 26 031 26 031 CHECK ESTIMATE CHECK	Retaining Wa		0	5				G. Reyes-Gutie	rrez	Rachel Washington
Superstructure Substructure Retaining Walls Superstructure Substructure Check Estimate Check Check Check Check Check Check Check Check				,				*		
PAR SIZE ESTIMATE CHECK C			SUPERST	RUCTURE	BLSBUS	UCTURE	RETAINI	NG WALLS	4	
Nate Separate Se	BAI	R SIZE	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHECK
NATION N	8					,		,		•
NT DIAPHRAGM S9 341 S	4						269 E			
Interpretation Inte	5						39 341	39 036		
11 656 158 1	9				,		56 029	!		
INT DIAPHRAGM 1988 MALL 1988 INT DIAPHRAGM 1988 MALL 90 362 INIT DIAPHRAGM 90 362 MALL 1807 HINGE 90 362 ICES 92 169	7						11 656			
TAL PADE P	8						1 988			
INT DIAPHRAGM	6						£59 <i>L</i>	•		
INT DIAPHRAGM	10									
INT DIAPHRAGM	11			,		•			·	
INT DIAPHRAGM	14									
INT DIAPHRAGM MALL	18									
RAIL MALL MALL <th< td=""><td></td><td>INT DIAPHRAGM</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		INT DIAPHRAGM								
WALL WALL MALL MALL <th< td=""><td></td><td>RAIL</td><td></td><td></td><td></td><td></td><td></td><td></td><td>,</td><td>•</td></th<>		RAIL							,	•
HINGE		WALL								
TAL 90 362 ICES 1 807 ICES 92 169		HINGE								
TAL. 90 362 ICES 1 807 ICES 92 169				,						
ICES 1807 ICES 92 169	SUBTOTAL					•	90 362			
65 169	2% SPLICES						1 807			
NOTES	TOTAL					•	92 169			
	NOTES									
	•									
								•		

							v						
DS-D 0110 (REV 8/91)									RW	PAGE		OF	
				nos	SOURCE	CHARGE	ige.	EXPEN	EXPENDITURE		SPECIAL DES	r des	
				DIST	TIND	DIST	TINO	AUTHORIZATION	IZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 2			GRG	φ	3591	9.		J			0612000239-1	0239-1	
Retaining Wall # 2 Summary (see segments in below sheets)	ow sheets)		(
							TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN ·	No 10	No 11	No 14	No
Total # of Segments =													
Type 1 Retaining Wall Reinforcement Totals			0.0	2622.4	22445.1	11666.9	2295.4	0.0	1351.2	0:0	0.0	0.0	0.0
					,								
									-				
			:										
			•										
				•									
												•	••
											,		
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS		0	2622	22445	11667	2295	· · O	1351	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.6
Show ib/ft to nearest pound.	TOTAL WT. PER SIZE	SIZE	0	1,752	23,410	17,524	4,692	0	4,594	0	0	0	0
	TOTAL WT. PER SHEET	SHEET	0	1,752	23,410	17,524	4,692	0	4,594	0	0	0	0
ВУ	DATE	REMARKS				NAME						VERIFY	
G. Reyes-Gutierrez	5/30/2012				IN CASE OF	Richard Melko	elko						
СНЕСК	DATE				CONTACT:	BUSINESS PH	ONE NUMBE	æ		DATE			
Rachel Washington	5/30/2012					916-227-0721	721		,	5/30/2012	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

REINFORCING STEEL

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DS-D 0110 (REV 8/91)										-	RW	PAGE	2	OF	
						nos	SOURCE	CHARGE	RGE	EXPENDITURE	OITURE		SPECIAL DES	AL DES	
						DIST	TIND	TSIO	UNIT	AUTHORIZATION	IZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 2					GRG	9	3591	9	0	0			0612000239-1	0239-1	•
Segment 1								ST	A 11+99.38	STA 11+99.38-12+40 L=40.62' H=10'	40.62' H=	<u>.</u>		:	
		_	-						TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM		SIZE	NO.	LENGTH	No 3	No 4	S ON	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4	9	40.29		241.7			•						
2 "S" bars #5@18"		2	. 0	40.29	,		241.7								
		9	100	15.00				1500.0			·				
4 "c" bars #6@9"		9	54	11.94				644.8							
4a short "c" bars #6@9"															
5 #5@12"		5	41	8.62			353.4								
6 #5 tot 4		5	4	40.29			161.2		•						
7 #5@s=9"		5	54	5.27			284.6					,		-	
8 #5@12"		5	8	40.29			322.3								
9 "d" bars #6@s=9"		9	54	5.95				321.3							•
10 #5@s=9"		2	54	3.17			171.2								
11 #5@12"		2	9	40.29			241.7	•							
STEP							·		•						
1 #5@16"	*.	5	9	7.25			43.5								-
2 #5@16"		rs.	9	8.00			48.0								
						;									
NOTE: For computing steel in Standard Retaining) <u>F</u>	TOTAL LENGTHS	NGTHS		0	242	1868	2466	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	\$.	WT. PER FOOT	-00T		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	ř	OTAL WI	TOTAL WT. PER SIZE	Щ	0	161	1,948	3,704	0	0	0	0	0	0	0
ne vote	Ĕ	OTAL WI	TOTAL WT. PER SHEET	EET	0	161	1,948	3,704	0	0	0	0	0	0	
ВУ	Δ	ATE	<u>æ</u>	REMARKS			-							VERIFY	
G. Reyes-Gutierrez		5/30/2012	012				IN CASE OF QUESTION		lelko						
CHECK	Ω .	DATE					CONTACT:		BUSINESS PHONE NUMBER	<u>e:</u>		DATE			
Rachel Washington		5/30/2012	012	•				916-227-0721	721			5/30	5/30/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

DS-D 0110 (REV 8/91)		١.			•	•	r			RW	PAGE	3	3 OF	
			-		nos	SOURCE	CHARGE	IGE	EXPEŇ			SPECIAL DES	L DES	
					DIST	UNIT	DIST	UNIT	AUTHOR	AUTHORIZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 2				GRG	9	3591	9	0				0612000239-1	1239-1	
Segment 2								STA 12+40	STA 12+40-12+80 L=20' H=12'	-20' H=12		-		
								TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	E NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"	4	ဖ	39.67		238.0									
2 "S" bars #5@18"	2	9	39.67			238.0								
3 "e" bars #6@10" X 5' for 8'									• .					
4 "c" bars #6@9"	9	53	13.10				694.3							
4a short "c" bars #6@9"							,							
5 #5@12"	5	41	9.58			392.8			:					
6 #5 tot 4	5	4	39.67			158.7								
7 #5@s=9"	5	53	5.82			308.5							·	
8 #5@12"	5	10	39.67			396.7					·			
9 "d" bars #6@s=9"	9	53	6.49				344.0							
10 #5@s=9"	ιO	23	3.17			168.0						-		
11 #5@12"	2	9	39.67	•		238.0								
STEP														
1 #5@16"	5	8	8.00			64.0								
2 #5@16"	2	7	11.34		. •	79.4				,				
								·						
NOTE: For computing steel in Standard Retaining	TOT	TOTAL LENGTHS	S	0	. 238	2044	1038	0		0	0	0	0.	0
Wall from the charts, use 99 for size.	WT	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60
Show lb/ft to nearest pound.	D	TOTAL WT. PER SIZE	SIZE	0	159	2,132	1,559	0	ó	0	0	0	0	0
	TOT	TOTAL WT. PER SHEET	SHEET	0	159	2,132	1,559	0	0	0	0	0	0	0
ВУ	DATE	ш	REMARKS				NAME						VERIFY	
G. Reyes-Gutierrez	r.	5/30/2012				IN CASE OF	Richard Melko	elko		•				
СНЕСК	DA	ш		. •		CONTACT:	BUSINESS PI	IONE NUMBE	Œ	٠	DATE		•	
Rachel Washington	5	5/30/2012					916-227-0721	721			2/30/	5/30/2012		

DS-D 0110 (BEV 8/91)						-	٠			RW	PAGE	4	90 E	
					SOURCE	CE	CHARGE	IGE	EXPEN	EXPENDITURE		SPECIAL DES	r des	
			-		DIST	TINÜ	DIST	UNIT	AUTHOR	AUTHORIZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 2				GRG	9	3591	9	0		0		0612000239-1	0239-1	
Segment 3								STA 12+80-13+20	l .	L=40 H=14				
								TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"	4	. 7	39.67	î.	277.7					•				
2 "S" bars #5@18"	5	7	39.67			277.7								
3 "e" bars #6@10" X 5' for 8'														
4 "C" bars #6@7"	9	69	15.12				1043.3		-			,		
4a short "c" bars #6@9"	** *						-							
5 #5@12"	5	41	11.05			453.1		,						
6 #5 tot 4	5	4	29.68			158.7				·		-		
7 #5@s=7"	2	69	6.52		•	449.9	,							
8 #5@12"	ß	12	39.67	,		476.0								
	9	69	7.83				540.3							-
10 #5@s=7"	5	69	3.67			253.2								
11 #5@12"	2	5 8	39.67			317.4	,							
STEP											:-			
1 #5@16"	5	9	9.25			55.5	,							
2 #5@16"	5	7	9.66	٠,		67.6								
									:	·				
NOTE: For computing steel in Standard Retaining	TOT	TOTAL LENGTHS		0	278	2509	1584	0	0	0	0	0	0	. 0
Wall from the charts, use 99 for size.	WT.	WŢ. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60
Show ib/ft to nearest pound.	TOT	TOTAL WT. PER SIZE	SIZE	0	185	2,617.	2,378	0	0	0,	0	0	0	0
	TOT	TOTAL WT. PER SHEET	SHEET	0	185	2,617	2,378	0		0	0	0 .	0	0
BY	DAT	ш	REMARKS				NAME						VERIFY	
G. Reyes-Gutierrez	7.0	5/30/2012				IN CASE OF	Richard M	Richard Melko	٠					
СНЕСК	DAT	ш				CONTACT:	BUSINESS PI	IONE NUMBE	Œ		DATE			
Rachel Washington	2	5/30/2012					916-227-0721	.21			2/30/	5/30/2012		

DS-D 0110 (BEV 8/91)										BW T	PAGE	2	OF	**************************************
					SOURCE	RCE	CHARGE	RGE	EXPENDITURE			SPECIAL DES	NL DES	
					DIST	UNIT	DIST	UNIT	AUTHORIZATION	IZATION		WHEN AP!	WHEN APPLICABLE	•
Retaining Wall # 2				GRG	. 9	3591	9	. 0	0			0612000239-1	0239-1	•
Segment 4				:				STA 13+20	STA 13+20-13+40 L=20 H=14	=20 H=14				
								TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No.5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
1 "T" bars #4@18"	4	7	19.67		137.7									
2 "S" bars #5@18"	ΓĊ	7	19.67			137.7								
3 "e" bars #6@10" X 5' for 8'														
4 "c" bars #6@7"	9	34	15.86			•	539.2							
4a short "c" bars #6@7"							·		·					
5 #5@12"	ß	21	11.76			247.0			,		•			
6 #5 tot 4	5	4	19.67			78.7								
7 #5@s=7"	r.	34	6.49			220.7	·							
8 #5@12"	ß	10	19.67			196.7								
9 "d" bars #6@s=7"	ဖ	34	7.80				265.2							
10 #5@s=7"	2	34	3.84		,	130.6	:					*		
11 #5@12"	5	9	19.67			118.0			•					
STEP	4.										**			
1 #5@16"	5	9	9.25			55.5								
2 #5@16"	5	7.	9.66			67.6							·	
NOTE: For computing steel in Standard Retaining	TOTA	TOTAL LENGTHS		0	138	1252	804	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. P	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTA	TOTAL WT. PER SIZE	SIZE	0	92	1,306	1,208	0	0	0		0	0	0
	TOTA	WT. PER	SHEET .	. 0	92	1,306	1,208	. 0	0	0	0	0	. 0	0
ВУ	DATE		REMARKS		:		NAME						VERIFY	
G. Reyes-Gutierrez	5/3	5/30/2012				IN CASE OF	Richard Melko	elko		·				
СНЕСК	DATE					CONTACT:	BUSINESS PI	BUSINESS PHONE NUMBER			DATE			
Rachel Washington	5/3	5/30/2012		2			916-227-0721	721			5/30/	5/30/2012		
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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DS-D 0110 (REV 8/91)			٠							RW	PAGE	9	-OF	·
And the state of t				, ·	nos	SOURCE	СНА	CHARGE	EXPENDITURE	NTURE	-	SPECIAL DES	AL DES	
		,			DIST	TINO	DIST	TINU	AUTHORIZATION	IZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 2				GRG	'n	3591	9	0	0		,	0612000239-1	0239-1	
Segment 5								STA 13+40	STA 13+40-13+60 L=20' H=14'	-20' H=14 ^r		:		
		<u> </u>						TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	ŊŎ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"	4	8	19.67		157.4								٠	,
2 "S" bars #5@18"	5	8	19.67			157.4								
3 "e" bars #6@10" X 5' for 8'			. *									·		
4 "c" bars #6@7"	9	34	16.80				571.2							
4a short "c" bars #6@7"								•						
5 #5@12"	2	21	12.66		•	265.9								
6 #5 tot 4	5	4	19.67			78.7								
7 #5@s=7"	. 5	34	6.45			219.3								•
8 #5@12"	5	10	19.67			196.7		*.						
9 "d" bars #6@s=7"	ဖ	34	7.76				263.8							
10 #5@s=7"	ιΩ	34	3.84	-		130.6							*.	
11 #5@12"	ιO	ဖ	19.67			118.0								
													•	
						,								•
									•					
	-						-							
NOTE: For computing steel in Standard Retaining	TOTALL	TOTAL LENGTHS		o o	157	1166	835	0	0	0	0	0	0.	0
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTALÑ	TOTAL WT. PER SIZE	ZE	0	105	1,217	1,254	0	0	0	0	0	. 0	0
	TOTAL W	TOTAL WT. PER SHEET	1EET	0	105	1,217	1,254	0	0	0	0	0	0	0
ВУ	DATE	ш.	REMARKS										VERIFY.	
G. Reyes-Gutierrez	5/30/2012	2012				IN CASE OF		Richard Melko	9		i H	-		
	H H				·.	CONTACT:			:				•	
Rachel Washington	5/30/2012	2012					916-227-0721	721			5/30/	5/30/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

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DS-D 0110 (REV 8/91)										A .	PAGE	7	٦ ک	
	•				SOL	SOURCE	CHARGE	RGE	EXPEN	EXPENDITURE		SPECIAL DES	LDES	
			100		igin .	JINO.	ign	5	OU O	NCALION A		TO NETUNA	LICABLE	
Retaining Wall # 2					9	3591	9	. 0		. 0		U612000239-1	. L-8820	
Segment 6						_	,	STA 13+60	-13+80 L	STA 13+60-13+80 L=20' H=16'	_			
		-						TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE	-			
ITEM	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"	4	8	19.67		157.4				·					
2 "S" bars #5@18" #5@12"	2	10	19.67			196.7								
		*.												
	7	20	16.57					331.4						
4a short "c" bars #7@6"	. 2	20	11.77	•	٠	•		235.4						
5 #5@12"	2	21	11.96			251.2								
6 #5 tot 4	2	4	19.67		٠	78.7		•			•			
7 #5@s=6"	5	40	7.15			286.0	,							
8 #5@12"	2	12	19.67			236.0		•						
9 "d" bars #9@s=6"	6	40	8.46							338.4				
10 #5@s=6"	2	40	4.34			173.6								
11 #5@12"	5	8	19.67			157.4								
STEP				,					-					
1 #5@16"	ıo	9	10.42			62.5				•				
2 #5@16"	гO	8	10.66			85.3								
				•										
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	ENGTHS		0	157	1527	0	299	0	338	0	0	0	0
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTALW	TOTAL WT. PER SIZE	<u> </u>	0	105	1,593	0	1,159	0	1,151.	0	0	, O	0
	TOTALW	TOTAL WT. PER SHEET	ÉET	0	105	1,593	0	1,159	0	1,151	0	0	0	0
ВУ	DATE	E.	REMARKS			-	NAME						VERIFY	
G. Reyes-Gutierrez	5/30/2012	2012				IN CASE OF		elko			1			
CHECK	DATE					CONTACT:		BUSINESS PHONE NUMBER	<u></u>		DATE	9		
Racnel Washington	2/30/2012	2012					1916-227-0721	721			2/30	2/30/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION REINFORCING STEEL

								-	Pot .		,				
DS-D 0110 (REV 8/91)											RW	PAGE	8	OF	+
						SOURCE	RCE	CHARGE	RGE	EXPEN	EXPENDITURE		SPECIAL DES	L DES	
						DIST	UNIT	. DIST	TINO	AUTHOR	AUTHORIZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 2						9	3591	9	0)	0		0612000239-1	1239-1	
Segment 7									STA 13+8(3-14+40 L	STA 13+80-14+40 L=60' H=16'				
		-							TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	S	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4	8	59.67		477.4									
2 "S" bars #5@18" #5@12"		5	10	59.67			596.7				•				
3 "e" bars #6@10" X 5' for 8'															
4 "c" bars #7@6"		7	09	17.02					1021.2						
4a short "c" bars #7@6"		7	09	11.79		:			707.4						
5 #5@12"		5	61	12.39			755.8								
6 #5 tot 4		5	4	59.67			238.7								
7 #5@s=6"		5	120	7.13			855.6					-			
8 #5@12"		. 5	12	59.67			716.0								
9 "d" bars #9@s=6"		0	120	8.44					·		1012.8		·		
10 #5@s=6"		Ŋ	120	4.34			520.8						-		
11 #5@12"		5	8	59.67			477.4								
STEP							,								
1 #5@16"		5	9	10.42			62.5								
2 #5@16"		5	8	10.00			80.0	·							·
							٠.	,							
NOTE: For computing steel in Standard Retaining	ĭ	OTAL LE	TOTAL LENGTHS	- 1	0	477	4303	0	1729	0	1013	0		0	0
Wall from the charts, use 99 for size.	- ≯ - ;	WT. PER FOOT	F00T		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	ĭ	OTAL W	TOTAL WT. PER SIZE	ZE	0	319	4,489	0	3,533	0	3,444	0	0	0	0
	Ţ	OTAL.W	TOTAL WT. PER SHEET	TEET	0	319	4,489	0	3,533	0	3,444	0	0	0	0
ВУ	۵	ATE	<u>«</u>	REMARKS				NAME		-		٠.		VERIFY	-
G. Reyes-Gutlierrez		5/30/2012	012				IN CASE OF		lelko	•					
СНЕСК	Ω	ATE					CONTACT:		BUSINESS PHONE NUMBER	e:		DATE			
Rachel Washington		5/30/2012	2012					916-227-0721	721			2/30/	5/30/2012		

DS-D 0110 (REV 8/91)	٠.										RW	PAGE	6	OF	
						SOURCE	RCE	CHARGE	ige.	EXPEN	EXPENDITURE		SPECIAL DES	L DES	
					-	DIST	UNIT	DIST	TIND	AUTHORIZATION	IZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 2				lu l		9	3591	ဖ	0	•			0612000239-1	1239-1	
. Segment 8						-			STA 14+40	STA 14+40-15+00 L=60' H=14'	=60' H=14'				
									TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM		SIZE	Ŏ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4	7	59.62		417.7									
2 "S" bars #5@18"		5		59.67			417.7								
														,	
		ဖ	103	15.47	•			1593.4							
G													٠	. !	
		ۍ ر	19	11.38			694.2							î	
		ro	4	29.62			238.7								
7 #5@s=7"		īΟ	103	6.50			669.5								
8 #5@12"		5	12	59.67			716.0		. •						
9 "d" bars #6@s=7"		9	103	7.81				804.4		•			-		
10 #5@s=7"		5	103	3.84			395.5	,							
11 #5@12"		5	80	59.67		•	477.4								
STEP							,								
1 #5@16"		വ	9	9.25			55.5			-					ŀ
2 #5@16"		2	7	10:00		٠	70.0								
NOTE: For computing steel in Standard Retaining		TOTAL 1	TOTAL LENGTHS			418	3734	2398	0	Ö	0	0	0	0	0
Wall from the charts, use 99 for size.		WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60
Show lb/ft to nearest pound.		TOTAL \	TOTAL WT. PER SIZE	IZE	0	279	3,895	3,602	0	0	0	0	0	0	0
		TOTAL \	TOTAL WT. PER SHEET	HEET	0	279	3,895	3,602	0	0	0	.0	0	0	0
ВУ		DATE		REMARKS				NAME		-				VERIFY	
G. Reyes-Gutierrez		5/30/2012	2012				IN CASE OF	Richard Melko	elko	-					
СНЕСК		DATE	٠.				CONTACT:		HONE NUMBE	H.		DATE			
Rachel Washington	:	5/30	5/30/2012		· .			916-227-0721	721			2/30/	5/30/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

REINFORCING STEEL

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DS-D 0110 (REV 8/91)												PAGE	10	JO-	
					- 1 .	SOURCE	RCE	CHARGE	GE	EXPENDITURE AUTHORIZATION	ITURE		SPECIAL DES WHEN APPLICABLE	. DES LICABLE	
Retaining Wall # 2						9	3591	9	. 0	0			0612000239-1	1239-1	
Segment 9				16. Q/20 V. 1					STA 15+00-15+40	ı	L=40' H=14'				
	•								TOTAL		1 SIZE				
ITEM		SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4	7	39.67		7.772			,						
2 "S" bars #5@18"		5	7	39.67			277.7								
		9	69	15.61				1077.1							
			, .												
		5	41	11.57			474.4		7						
		5	4	39.67			158.7								
"Z=2@S=7"		5	69	6.49			447.8								
8 #5@12"		5	10	39.67			396.7								
		9	69	7.80				538.2							
10 #5@s=7"		ເນ	69	3.84			265.2								
11 #5@12"		ſΩ	80	39.67			317.4					•			
														-	
				4.											
NOTE: For computing steel in Standard Retaining		TOTAL L	TOTAL LENGTHS		0	278	2338	1615	0	0	0	0	0	0	:0
Wall from the charts, use 99 for size.		WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/lt to nearest pound.		TOTAL.V	TOTAL WT. PER SIZE	IZE	0	185	2,438	2,426	0	0	0	0	0	0	0
		TOTAL'V	TOTAL WT. PER SHEET	неет	0	185	2,438	2,426	0	0	0	0	0	0	0
ВУ		DATE	-	REMARKS			•	NAME						VERIFY.	
G. Reyes-Gutierrez		5/30/2012	2012				IN CASE OF	Richard Melko	elko				-	٠	
СНЕСК		DATE					CONTACT:	BUSINESS PI	IONE NUMBE	c .		DATE			
Rachel Washington		2/30/	5/30/2012					916-227-0721	721			5/30/2012	2012		

DS-D 0110 (REV 8/91)	•									RW	PAGE	1	OF	
					SOURCE	3CE	CHARGE	GE	EXPEN	EXPENDITURE		SPECIAL DES	LDES	
					DIST	UNIT	DIST	UNIT	АОТНОВ	AUTHORIZATION		WHEN APPLICABLE	LICABLE	
Retaining Wall # 2			ar i i		. 9	3591	9	0	J	0	•	0612000239-1		
Segment 10							ST,	STA 15+40-15+74.59		L=34.59' H=12'	12'			
								TOTAL	TOTAL LENGTH - EACH SIZE	HSIZE				
ITEM	SIZE	Ñ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No.10	No 11	No 14	No 18
1 "T" bars #4@18"	4	7	34.26		239.8									
2 "S" bars #5@18"	5	7	34.26			239.8								
	မ	46	13.74	,			632.0					•		
4a short "c" bars #6@9"														
5 #5@12"	2	35	10.20			357.0								
6 #5 tot 4	5	4	34.26			137.0						-		
7 #5@s=9"	гo	. 46	5.80			266.8						·		
8 #5@12"	ιΩ	9	34.26			342.6								
9 "d" bars #6@s=9"	9	46	6.40				294.4							
10 #5@s=9"	2	46	3.34			153.6			-					
11 #5@12"	5	9	34.2é	•		205.6								
		: 1						•				·		
							-					,		
		•												
NOTE: For computing steel in Standard Retaining	TOTAL LENGTHS	NGTHS		0	240	1702	926	0	0	0	0	0	0.	0
Wall from the charts, use 99 for size.	WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60
Show lb/ft to nearest pound.	TOTAL WT. PER SIZE	r. Per si	ZE .	0	160	1,776	1,392	0	0	0	0	0	0	0
	TOTAL WT. PER SHEET	r. Per Si	HEET	0	160	1,776	1,392	0	0	0	0	0	0	0
ВУ	DATE	<u>a.</u>	REMARKS				NAME			,			VERIFY	
G. Reyes-Gutierrez	5/30/2012	012				IN CASE OF	Richard Melko	elko						
CHECK	DATE					CONTACT:		ONE NUMBE	œ		DATE		. •	
Rachel Washington	5/30/2012	012					916-227-0721	721			2/30/	5/30/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

REINFORCING STEEL

												The second of		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
DS-D 0110 (REV 8/91)											₩.	PAGE		OF	۲
						SOURCE	RCE	CHARGE	RGE	EXPENDITURE	DITURE		SPECIAL DES	IL DES	
						DIST	TINU	DIST	UNIT	AUTHORIZATION	IZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 4					GRG	9	3591	9	0	0			0612000239-1	0239-1	
Retaining Wall # 4 Summary (see segments in below sheets)	n below	sheets	9												
			-			,			TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM		SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
Total # of Segments =			•												
							•								
Type 1 Retaining Wall Reinforcement Totals					0.0	1425.7	7019.2	4726.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			·					•					•		
				-											
									,		٠				
									,						
													-		
								•							
							,								
						·									
														·	
														·	
			•	. 67 -											
NOTE: For computing steel in Standard Retaining		TOTALL	TOTAL LENGTHS		0	1426	7019	4727	0		0	0	0	0	. 0
Wall from the charts, use 99 for size.		WT. PER FOOT	FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.		TOTAL \	TOTAL WT. PER SIZE	. JZI	0	952	7,321	7,099	0	0	0	0	0	0	0
		TOTAL V	VT. PER S	неет	0	952	7,321	7,099	0	0	0	0	0	0	0
ВУ		DATE	DATE REMAR	REMARKS				NAME				,		VERIFY	
G. Reyes-Gutierrez	-	5/30/2012	2012				IN CASE OF	Richard M	Richard Melko						
СНЕСК		DATE					CONTACT:	BUSINESS P	HONE NUMBE	н		DATE			
Rachel Washington		2/30/	5/30/2012				·	916-227-0721	721			2/30/	5/30/2012	.	

	JOING STEEL								-			L				
DS-D 0110 (REV 8/91)	8/91)											₩	PAGE	2	JO.	+
							SOURCE	RCE	CHARGE	RGE	EXPENDITURE	NTURE	er e	SPECI	SPECIAL DES	•
				٠.			DIST	TINO	DIST	UNIT	AUTHORIZATION	ZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 4	Vall # 4					GRG	ဖ	3591	9	ó	•			0612000239-1	0239-1	
Segment 1										STA 11+2	STA 11+24-11+80 L=56' H=8'	:56' H=8'				
										TOTAL	TOTAL LENGTH - EACH SIZE	+ SIZE				
	ITËM		SIZE	Ö.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 oN	No 10	No 11	No 14	No 18
1 "T" ba	"T" bars #4@18"		4	9	55.67		334.0				·					.
2 "S" b	"S" bars #5@18"		5	9	55.67			334.0								
	"e" bars #6@10" X 5' for 8'		9	09	15.00				900.0				<u>.</u>			
4 "c" be	"c" bars #6@9"		9	75	12.57			`\	942.8			·				
4a short	short "c" bars #6@9"					·										.
5 #5@12"	12"		5	22	9.31			530.7								
6 #5 tot 4	14		5	4	55.67			222.7								
	,=6 }=		2	75	5.00		,	375.0								
8 #5@12"	12"		5	8	55.67			445.4					-			
	"d" bars #6@s=9"		9	75	5.67	,			425.3							
10 #5@s=9"	,e=6		2	75	3.09			231.8			-					
11 #5@12"	12"		τĊ	9	55.67			334.0	•				,			
	STEP															
1 #5@16"	9		5	9	6.92			41.5							•	
2 #5@16"	9"	 :	Ŋ	9	10.54			63.2								
				:												
NOTE: For comput	NOTE: For computing steel in Standard Retaining		TOTAL	TOTAL LENGTHS	<u> </u>	0	334	2578	2268	0	0	0	0	0	0	0
Wall from the	Wall from the charts, use 99 for size.		WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to	Show lb/ft to nearest pound.		TOTAL	TOTAL WT. PER SIZE	SIZE	• .	223	2,689	3,407	0	0	0	0	0	0	. 0
			TOTAL	TOTAL WT. PER SHEET	SHEET	0	223	2,689	3,407	0	0	0	0	0	0	0
ВУ			DATE	1.	REMARKS				NAME				-		VERIFY	
G. Reyes-Gutierrez	ierrez		5/30/2012	//2012				IN CASE OF	Richard M	Richard Melko						
CHECK		•	DATE					CONTACT:	BUSINESS P.	HONE NUMBE	æ	-	DATE			
Rachel Washington	ington		5/30	5/30/2012					916-227-0721	721		,	5/30/2012	2012		

DS-D 0110 (REV 8/91)											RW	PAGE	3	OF	+4
					,	SOURCE	3CE	CHARGE	3GE	EXPENDITURE	NTURE		SPECIAL DES	IL DES	
						DIST	TIND	DIST	UNIT	AUTHORIZATION	IZATION		WHEN AP	WHEN APPLICABLE	
Retaining Wall # 4					GRG	9	3591	9	0,	0	.0		0612000239-1	0239-1	
Segment 2							, , , , , , , , , , , , , , , , , , ,		STA 11+80	STA 11+80-12+56 L=76'	76' H=10'				
									TOTAL	TOTAL LENGTH - EACH SIZE	1 #				
ITEM		SIZE	Ö.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4	8	75.67		605.4				-					
2 "S" bars #5@18"		ശ	8	75.67			605.4				-				
4 "c" bars #6@9"		ဖ	102	15.02			,	1532.0							
8						·									
		ည	11	11.58			891.7							-	
		10	4	75.67		·	302.7	,	•						
		Ω.	102	5.15			525.3								
8 #5@12"		ம	8	75.67			605.4		•						
		9	102	5.83				594.7							
		ro	102	3.17			323.3								
		ro	မ	75.67			454.0								
STEP															
1 #5@16"		5	3	7.25			21.8	,							
2 #5@16"		5	9	10.22			61.3	•							
	5. 														
NOTE: For computing steel in Standard Retaining	-	TOTAL I	TOTAL LENGTHS		. 0	605	3791	2127	0	0	0	0	0	0	0
Wall from the charts, use 99 for size.		WT. PĖ	WT. PËR FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.		TOTAL	TOTAL WT. PER SIZE	. JZIS	0	404	3,954	3,194	0	0	0	0	0,	0	0
		TOTAL	WT. PER (SHEET .	0	404	3,954	3,194	0	0	0	0	0	0	0
ВУ		DATE	DATE REMAR	REMARKS				NAME						VERIFY	
G. Reyes-Gutierrez		5/30	5/30/2012				IN CASE OF	Richard M	Richard Melko		-				
СНЕСК		DATE					CONTACT:	BUSINESS P	HONE NUMBE	es .		DATE			
Rachel Washington		2/30	5/30/2012					916-227-0721	721			2/30/	5/30/2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

REINFORCING STEEL

DS-D 0110 (BEV 8/91)										RW	PAGE	4	OF	1;
			:		SOURCE	RCE	CHARGE	RGE	EXPENDITURE	OITURE		SPECIAL DES	יר מבצ	
					DIST	UNIT	DIST	UNIT	AUTHORIZATION	IZATION		WHEN APPLICABLE	PLICABLE	
Retaining Wall # 4				GRG	9	3591	ဖ	0	0			0612000239-1	0239-1	
Segment 3					3			STA 12+56	STA 12+56-12+66 L=10' H=12'	:10' H=12'				
1970年の日本の中では、1970年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の								TOTAL	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM	SIZE	Ñ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"	4	6	9.67	,	87.0									
2 "S" bars #5@18"	5	6	9.67			87.0								
* - ,											·			
4 "c" bars #6@9"	9	14	17.39				243.5							
8														
	5	11	13.69	•		150.6								
6 #5 tot 4	5	4	9.67			38.7								
	5	14	5.64			79.0								
8 #5@12"	വ	. 10	9.67			96.7			·					
9 "d" bars #6@s=9"	9	14	6.32			,	88.5							
10 #5@s=9"	5	14	3.34			46.8	•							-
11 #5@12"	5	9	9.67			58.0								
PEDESTAL										•		·		
#4 @ 6"	4	10	13.10		131.0									
#4 @ 6 "	4	10	26.83		268.3					·				
#5 TOT 20	5	20	4.67		·	93.4								
NOTE: For computing steel in Standard Retaining	TOTAL	TOTAL LENGTHS		0	486	650	332		0	0	0	0	0	0
Wall from the charts, use 99 for size.	WT. PE	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.	TOTAL	TOTAL WT. PER SIZE	SIZE	0	325	678	499	0	0	0	0	0	0	0
	TOTAL	WT. PER	TOTAL WT. PER SHEET	0	325	678	499	0	0	0	0	0	0	0
ВУ	DATE		REMARKS				NAME						VERIFY	
G. Reyes-Gutierrez	5/30	5/30/2012			12.	IN CASE OF		Richard Melko						
СНЕСК	DATE					CONTACT:		HONE NUMBE	E		DATE			
Rachel Washington	2/30	5/30/2012					916-227-0721	721			5/30	5/30/2012		

(10/0 // (10/		,				-					MA MA	PAGE		OF	
DS-D 0110 (REV 8/81)			i											5 4	
						SOU	SOURCE	DIST	CHARGE	EXPENDITURE AUTHORIZATION	EXPENDITURE IUTHORIZATION		SPECIAL DES WHEN APPLICAB	SPECIAL DES WHEN APPLICABLE	
Retaining Wall # 6					GRG	9	3591	9	0)	0		0612000239-1	0239-1	
Retaining Wall # 6 Summary (see segments in below sheets)	in belov	w shee	ts)												
									TOTA	TOTAL LENGTH - EACH SIZE	H SIZE				
ITEM		SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	8 oN	No 10	No 11	No 14	No 18
Total # of Segments =															
		:													
Type 1 Retaining Wall Reinforcement Totals	s			-	0.0	1481.0	8255.1	2.986	3407.2	744.5	899.8	0.0	0.0	0.0	0.0
															•
								٠.				. •			
								2"							
											-				
		+,5								·			:		
		,													
															,
				1.											
												•			
NOTE: For computing steel in Standard Retaining		TOTAL	TOTAL LENGTHS	6 0	0	1481	8255	936	3407	745	006	0	0	0	0
Wall from the charts, use 99 for size.		WT. PI	WT. PER FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show ib/ft to nearest pound.		TOTAL	TOTAL WT. PER SIZE	SIZE	0	686	8,610	1,406	6,964	1,988	3,059	0	0	0	0
		TOTAL	. WT. PER	TOTAL WT. PER SHEET	0	686	8,610	1,406	6,964	1,988	3,059	0	0	0	0
ВУ		DATE		REMARKS				NAME						VERIFY	
G. Reyes-Gutierrez		5/3	5/30/2012				IN CASE OF	Richard Melko	lelko				·		
СНЕСК		DATE					CONTACT:	BUSINESS P	BUSINESS PHONE NUMBER	E		DATE		-	
Rachel Washington		5/3	5/30/2012					916-227-0721	721			5/30/2012	2012		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

REINFORCING STEEL

DS-D 0	DS-D 0110 (REV 8/91)]		AM.	PAGE	2	2 OF	
							SOURCE	RCE	CHARGE	7GE	EXPENDITURE	NTURE		SPECIAL DES	AL DES	
							DIST	UNIT	DIST	UNIT	AUTHORIZATION	ZATION		WHEN APPLICABLE	PLICABLE	
Retai	Retaining Wall # 6					GRG	9	3591	9.	0	0			0612000239-1	0239-1	•
Segment 1	ent 1								S	A 13+37.2	STA 13+37.23-13+45 L=7.77'	=7.77' H=14'	14,			
			-							TOTAL	TOTAL LENGTH - EACH SIZE					
	ITEM		SIZE	Ñ.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	6 ON	No 10	No 11	No 14	No 18
<u>-</u>	"T" bars #4@18"		4	6	7.44		67.0									
8	"S" bars #5@18"		5	- 6	7.44			67.0								
က	"e" bars #6@10" X 5' for 8'		9	40	15.00)	600.0							
4	"c" bars #6@7"		9	13	18.16				236.1							
4a	short "c" bars #6@7"		<u>.</u>							·						
2	#5@12"		5	8	13.99	,		111.9						-		
9	#5 tot 4		5	4	7.44	•		29.8					•			
7	#5@s=7"		5	13	6.45			83.9								
8	#5@12"	:	2	12	7.44	• .		89.3	• .							
თ	"d" bars #6@s=7"		9	13	7.70				100.1							
은	#5@s=7"		5	13	3.84			49.9		•			•			·
=	#5@12"		2	æ	7.44			59.5								,
	STEP												-			
-	#5@16"		5	8	9.25			74.0								
2	#5@16"		5	8	13.82	. ,		110.6								
NOTE	NOTE: For computing steel in Standard Retaining		TOTALL	TOTAL LENGTHS		0	29	929	936	0	. 0	0	. 0	0	0	0 .
8	Wall from the charts, use 99 for size.		WT. PER FOOT	1 FOOT	_	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
ਲ	Show lb/ft to nearest pound.	. ·	TOTAL	TOTAL WT. PER SIZE	IZE	0	45	705	1,406	0	0	0	0	•	0	0
			TOTAL V	TOTAL WT. PER SHEET	HEET	0	45	705	1,406	0	0	0	0	0	0	0
ВУ			DATE	p.449	REMARKS				NAME	-			•		VERIFY	
G. Re	G. Reyes-Gutierrez		5/30/2012	2012				IN CASE OF		lelko	-				*	
СНЕСК			DATE			•		CONTACT:		BUSINESS PHONE NUMBER	æ		DATE			
Rache	Rachel Washington		5/30/	5/30/2012					916-227-0721	721			5/30/2012	2012		

140° VED. 2440 G 30			•					:		BW.	PAGE	en en	OF	
לופנס אבוני) כונס בסבו					Jos	SOURCE	CHARGE	RGE	EXPEN	EXPENDITURE		SPECIAL DES	L DES	
					DIST	TINO	DIST	UNIT	AUTHOF	AUTHORIZATION	·	WHEN APPLICABLE	LICABLE	
Retaining Wall # 6				GRG	9	3591	9	0		. 0		0612000239-1	1239-1	٠
Segment 2							, v	STA 13+45-14+00		L=55' H=16'				
								TOTAL	۳.	H SIZE				
ITEM	S	SIZE NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4 11	54.67		601.4						٠			
2 "S" bars #5@18"		5 15	54.67	-		820.1								
		-												
		7 55	22.51				ŕ	1238.1						
4a short "c" bars #7@6"		7 55	12.01	•				9.099						
		5 55	17.66			971.3								
		5 4				218.7								
7 #5@s=6"		5 110	0 6.91			760.1			-					
8 #5@12"		5 12	54.67			656.0								
		9 110	0 8.18							899.8				
		5 110	0 4.34			477.4					•			
11 #5@12"		5 8	54.67			437.4								
				•										
							•	٠						
			e Tark											
NOTE: For computing steel in Standard Retaining) 	TOTAL LENGTHS	. SHI	0	601	4341	0	1899	0	006	0	0	0	0
Wall from the charts, use 99 for size.	M	WT. PER FOOT	ТО	0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.60
Show lb/ft to nearest pound.	<u>Σ</u>	TOTAL WT. PER SIZE	ER SIZE	0	402	4,528	0	3,881	0	3,059	0	0	0	0
	TC	OTAL WT. P	TOTAL WT. PER SHEET	0	402	4,528	0	3,881	. 0	3,059	0	0	0	0
BY	<u>a</u>	DATE	REMARKS	G			NAME						VERIFY	
G. Reyes-Gutierrez		5/30/2012	2			IN CASE OF		lelko						
СНЕСК	<u>a</u> _	ATE		-		CONTACT:		BUSINESS PHONE NUMBER	æ		DATE			
Rachel Washington		5/30/2012	2				916-227-0721	721			2/30/	5/30/2012		

DS-D 0110 (REV 8/91)	٠.					• ,					RW	PAGE	4	OF	
						SOURCE	RCE	CHARGE	3GE	EXPENDITURE	ITURE		SPECIAL DES	AL DES	
						DIST	UNIT	DIST	UNIT	AUTHORIZATION	ZATION		WHEN APPLICABLE	PLICABLE	
Retaining Wall # 6					GRG	9	3591	9	0	0			0612000239-1	0239-1	
Segment 3								ST/	A 14+00-14	STA 14+00-14+34.78 L=34.78'	34.78' H=18'	18.			
									TOTAL	TOTAL LENGTH - EACH SIZE					
ITEM	,	SIZE	NO.	LENGTH	No 3	No 4	No 5	No 6	No 7	No 8	No 9	· No 10	No 11	No 14	No 18
1 "T" bars #4@18"		4	12	34.45		413.4						·			
2 "S" bars #5@18", #5@12		ιĊ	5	34.45			516.8	,							
				<i>2</i>	·						·	•			
		7	42	23.24					976.1						
		7	42	12.68					532.6						
		5	35	17.89			626.2							-	
"-		.c	4	34.45			137.8			ż			,		
7 #5@s=5"		ιΩ	83	7.66			635.8							-	
8 #5@12"		5	14	34.45	•		482.3								
9 "d" bars #8@s=5"		80	83	8.97		٠				744.5					
10 #5@s=5"		5	83	4.84		,	401.7							-	
11 #5@12"		2	10	34.45			344.5								
PEDESTAL															
#4 @ 6"		4	10	13.10		131.0									•
#4 @ 6 "		4	9	26.83		268.3	_			-					
#5 TOT 20		. CO	20	4.67			93.4					-			
NOTE: For computing steel in Standard Retaining		TOTAĽL	TOTAL LENGTHS	ì.	0	813	3238	0,	1509	745	0	0	0	0	0
Wall from the charts, use 99 for size.		WT. PER FOOT	3 FOOT		0.376	0.668	1.043	1.502	2.044	2.670	3.400	4.303	5.313	7.650	13.600
Show lb/ft to nearest pound.		TOTAL	TOTAL WT. PER SIZE	IZE	0	543	3,378	0	3,084	1,988	0	0	0	0	0
		TOTAL	TOTAL WT. PER SHEET	HEET	0	543	3,378	. 0	3,084	1,988	0	0	0	0	0
ВУ		DATE	-	REMARKS				NAME					•	VERIFY	
G. Reyes-Gutierrez		5/30	5/30/2012	· .			IN CASE OF	Richard M	Richard Melko						
снеск		DATE					CONTACT:	BUSINESS PI	HONE NUMBE	œ		DATE			
Rachel Washington		5/30/	5/30/2012			-		916-227-0721	721			2/30/	5/30/2012		

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GRG
      06-ZHT201
                                                   10
5/2012 RW#2 Rebar Quantity
  STA 11+99.38 - 12+40 L=40.62 H=10 Havg = 7.7 Gare = 1.32
 Ot bour #4018" 7,7(12)+1=6 6= 40.29
@ sbar #5018
                 Tot=6 (=40.29
3 cbars #6010"x15' for8'
          10(10 se + s) X15
9 cbon #609" 40.29(12) + 1 = 54
 L= 7,7-,16+1.33-,25+1.32+2,33-,33=11,94
6) #5@12 | Tot=41 6= 7.7-16+1.33-,25=8.62
6 #5 tot 4 L= 40.29
7) #5 @5=9" Tot=54 L= 5.25-1.32+1.5-,16=5.27
B #5@12 (5.25-1.32) 17 4 1= 4(2)=8 L= 40.29
@ d baro #6@5=9" Tot=54 L=5,25-1,32+35(.0625)-,16
@ #5@5=9" Tot=54 L=2133+1-16=3,17
(1) #5@12 2,313(12) 1= 3(2)=6 C=40,29
(1) #5 @16 (3,33×12) + 1= 3(2)=6 L=7.58-.33=7,25
D#5 @16 7, 25(12), 1= 6 sets
                     L= (3,33-,33+1)2 = 8'
```

10

5/2012 RW#2 Rebar Quantity

Section 2 STA 12+40-12+80 L=40 H=12 HAUg=8.49 base=1.35 0 t bours #4@18 8,49(12) + 1= 6 C= 39.67 @ sbow \$5018 Tot=6 L= 39.67 13 e bono @ charo #609" 39.67(12) +1=53 L= 8,49 - 16+1,5-,25+ 1,35+ 2,5-,33=13,1 (5) #5012/ Tot=41 L= 8,49-,16 +1,5-,25=9,58 # 5 Tot 4 6= 39.67 9) #5@5=9" Tot=53 L= 5.83-1.35+1.5-16=5.82 8) #5@12 (5.83-1.35)12+1=5(2)=10 L=39.67 9 d bars #6@9" TOT=53 L= 5.83-1.35+35(,0625) -,16= 6.49 10 #5@5=9" To+=53 L= 2,33+1+,16=3,17" 1 #5@12 2.33(12)+1=3(2)=6 L=39.67 STEP 4(12) + 1= 4(2)=8 L= 8.33-.33=8 D #5016 2 #5016 \ 8,33(12)+1=7sets. L= (4+.33+2)(2)= 11.34

DATE 5/2012 COLLEGE RW#2 Repar Quantity

Section 3 STA 12+80-13+20 L=40 H=14 HAUg=9.8 banc=1.40 9.8(12) +1=7 L= 39.67 0 t bors # 4018 (2) 5 bars #5018 Tot=7 L=39.67 (3) e boirs 9 cbars #6@7' 39.67(12)+1=69 L= 9.8 -. 16+1.66-, 25+1.40+3-, 33=15,12 3 #5@12/ Tot=41 C= 9.8-.16+1.66-,25=11.05 6 #5 For 4 L= 39,67 D#505=7" Tot=69 4=6.58-1.4+1.5-16=6.52 (B) #5@17 (6.58-1.4)(12) , 1=6(2)=12 L=39.67 9) dbars # 6@7" TOT=69 L= 6.58-1.4 445 (.0625)-,16= 7,83 (D) #5@s=7" TOT=69 L=3-,33+1=3,67 @ #5012" 3(12) 1 = 4(2) = 8 C= 39.67 (D #50-16 3,16(12)+1= 3(2)=6 L=9.58-,33=9.25 2 # 5016 1 9,25 (12), 1= 7 sets. L= (3.16+,33+2) 2 = 9.66

- CL21.01 70 920

5/2012 SWEET RW#2 Rebar Quantity H=14 Havg=10,51 base-1.43 STA 13+20- 13+40 0 tbous #4018 10,18 (12) + 1=7 L= 19.67 2) Sbaro #5@18 TOT=7 L=19.67 3 e baro 2 19.67(12)+1=34 L=10.51-,16+1.66-.25+1.43+3-133=15.86 (5) #5@12/ Tot-21 C=10,51-16+1,66-,25-11,76 (6) #5 tot 4 L= 19,67 9 #5 @ 5=7" Tot= 34 L= 6.58-1.43+1.5-,16= 6.49 (B) #5 @12 (6,42-1,43)12+1=5(2)=10 (= 19,67 9 of baro = 6@7" TOT = 34 L= 6.58-1.43+45(,0675)=16 (10) #5@5=7" Tot =34 L= 3+1-,16= 3.84 0 +5 @ 12 Z/07(12) +1=3(2)=6 6=19.67 STEP 0#5@16 3.16(12), 1= 3(2)=6 L= 9.58-,33=9.25 2 #5016 1 9.25(12) 1 - 7 sets (= (3.16-133+2)2 = 9.66 Set.

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GRG

06-2-HTZO1

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DATE 5/2012 SORES RW#2 Rebar Quantity

Section 5 6-20 H= 14 HAUg=11,41 base=1,47 STA 13+40-13+60 1) + borro #4018 (11.41)(12)+1=8 L=19.67 2 8 bors # 5@ 18 Tot=8 L=19.67 3 e baro 9 c bar #607" 19.67(12)+1=34 L= 11,41-,16+1.66-,25+1,47+3-,33=16.8 3# 5012/ to+=21 (=11,41-,16+1,66-,25=12,66 6 #5 tot 4 L= 19.67 7) #5 es=7" TD+=34 L=6,58-1.47+0.5-,16=6,45 B #5012 (6.42-1.47)12+1=5(2)=10 L= 19.67 @ d bors #6@7" Tot=34 L= 6.58-1.47+ 45 (10625)-,16=7,76 @#5-@5=7" To+=34 L= 3+1-,16=3.84 (D#5012 26K12)+1=3(2)=6 (=19.67)

L=(3.66+2-,33)2=10.66

SP 37 104942 ~

5/2012 Rw#2 Rebar Quantity

Seation 7 L= 60 H=16 HAUg=11.14 base=1.46 Cta 13+80-14+40 (11.14)(12) 1= 8 L= 59.67 1 t bars #4@18 (5.57)(12), - 4 > 10 L= 59.67 @ sbars # 5@18 3 ebaro # 706" (5967/12) + 1 = 120/2 = 60 short 60 tall L= 11.14-,16+ 1.66-,25+ 1.46 + 3.5-,33 = 17.02 Lishard = 5,75+1.66-,25+1.46+35-,33=11.79 (5) #5 @ 12 | Tot = 61 L= 11.14-, 16+1.66-.25 = 12.39 6 #5 tot 4 L= 59.67 0 #5 es=6" Tot. Tot -120 L= 7.25-1.46+1.5-,16=7.13 #5012 (7.25-1.46)12 + 1=6(2)=12 L-59.67 @ d baro # 9@6" Tot = 120 L= 7,25-1.46+45 (.0625)-,16 @#5@5=6" Tot=120 L=3.5+1.0-16=4.34 0 \$5012 3.5(12), 1=4(2)=8 659.67. STEP D #5016 33363+1=3(2)=6 L=10.75-.33=10.42 2 #5016 / (10.42)(12), 1= 8 sets. (= 333-.33+2=5(2)=10

DSP 07 104942 ---

5/2012 RW# Z Rebar Quantity

Seation 9 StA 15+00-15+40 6=40 H=14 HAVD=10,32 Baren = 1.43 (10.32)12+1-7 L=39.67 1 tbars # 4018" (2) Sbars #5@18 Tot=7 L=39.67 (3) clars #6@7" 39.67(12) +1=1 39.67(12)+1=69 L=10.32-,16+1.66-,25+1.43+3-,33=15.61 5) #5@12 / Tot = 41 L= 10.32-16+1.66-25=11.57 6 # 5 Tot 4 L- 39.67 #5@5=7" Tot=69 L= 6.58-1.43+1.5-,16=6 49" D #5@5=7" 707=67 - 6.5 B #5@12 (6.42-1.43)12, 1=5(2)=10 6=39.67 (9 d bours #607" Tot=69 L= 6.58-1.43+ 45(.0625)-, 16= 7.8 10 # 505=7" Tot = 69 4= 3+1-16= 3.84 (0 #5012 3(12)+1=4(2)=8 L=39.67

CEONO: 70 9

0.000

5/2012 Rotty Rebar Quantity Section 1 5TA 11+24-11+80 L=56' H=81 1 than #4@18" (8.39)(12)+1=6 C=55.67 @ sbar #5018" TOT = 6 L= 55.67 (6 sets)(0) x 15' fa 6' 9 cbar #6@9 56(12)4, = 75 L= 8,39-,16+ 1.33-,25+1.34+2.25-,33= 12.57 B #50/2/ Tot=57 (= 8,39-,16+1,33-,25 = 9,3) 6 #5 tot4 L= 55.67 0 +50'5'+9" TOT=75 L=5'-1.34+1.5-.16=5 8 #5012 (5-1.34)(12)+1=4(2)=8 L=55.67 (9) a ban # 6@ 9" Tot=25- L=5.0-1.34+35(.0625)-.16=5,67 10 #5 @s=9" |TOT=75 L= 2,25+1-,16=3.09 @#5012 2.25(12)+1=3(2)=6 L=55,67 STEP 0 #5@16 (3.6)(12) +1= 3(2)=6 L= 7.25-,33=6.92 7.25(12)+1=6 sets 2 #5016 L= 3,6-133+2 = 5,27(2)=10,54

06-ZHTZ01

GRC

GRG 06-24+201 3 2 5/2012 Rw #4 Rebai Quantity Sect 2 5TA 11+80-12+56 L=76 H=10 O t born # 4 @10" 10,00 (12) +1= 8 L= 75,67 @ 5 bars #5@18" tot=8 (=75,67 3 e baro # 6 @10" x 15 for 8' @ cloars # 609 76(12)+1=102 L=10,66-,16+1.33-,25+1,44+2,33-.33=15.02 6) #5@12 | 70+=77 L= 10.60-,16+1.33-,26=11.50 6 45 TOT4 L=75,67 9 #5 @ s=9" Tot=102 L= 5,25-1,44+1,5-,16 = 5.15, B #5@ 12 (5.25-1.44) 12 + 1= 4(2)=0 L= 75.67 9) d bars, #6@5=9" tot=102 L=5.25-144+35(.0625)-,16 L= 5.83 D #505=9" TOT=102 L= 2,33+1-16= 3,17 (1) #se12 2,33(12)+1=3(2)=6 6-75,67 Step 0 #5016 3,44(12) 1=3 (=7,58-,38=7,25 (2) #5@16 T 7,5B(17) + 17- 6 sets L=(3.44-,33+2)(2) = 10,22

5/2012 RW#H Rebar Quantity Section 3 STa 12+56-12+66 L=10' H=12' 1 5 bars #5018" TOT = 9 6=9.67 (3) e boun #6010"x 15' Son 8' shown in sect 1 @ cbaro #6@9 10(12)+1=14 L= 12.6-16+1.5-,25+1.53+2,5-,33=17.39 5 #5@12 | ToT = 11 L= 12.6-,16+1.5-,25= 13.69 6 #5 +0T4 L= 9.67 6 #5 toth 9 #5 ca9" toT = 14 L= 5.83 + 1.53 + 1,5-,16= 5.64 8 #5 c12 (5.83-1.53)(12)+1=5(2)=10 L=9.67 (9) d bous #609 tot 14 L= 5,83-1,53+35(,0625) -16=6.32 (D) #5 @5=9" Tot=14 L= 2,5+1-,16=3.34 0 #5@2 2,5(2)+1=3(2) L=9.67,

GRG 06-2HT201

GRG 06-2HTZ01

5/2012 Rw#6 Rebau Quanty

Seafron 1 STA 13+37,23-13+45 L=7,77 H=14' HAUG=12,24 base - 1.53 1) t bars #4018 12.74(12)21=9 L=2.44 @ Shars #5@18 TOT = 9 L= 7,44 @ ebous #6@10" x 15' for 8' 1. 10 (4 sets) = 40 X15 (9) c bars # 6@7 7.44(12) 1 = 43 L= 1214-, 16+1.66+, 25+ 1.5+3-,33=18.16 #5 @ 12 / TOT = 80 L= 121+,16+1.66-,25 = 13,99 6 #5 TOT 4 L= 7.44 6 #5 @ S = 7" Tot = 13 L= 6.58-1.50+1.53-,16 = 6.45 (B) # 5@12 (6,58-1,5)(12) 1 = 6(2)=12 L= 7.44 @ al bars # 6@7" Tot=13 L=6.58-1.53+ 45(,0625)-16 L=7.7. (10) #5@s=7" Tot=13 L=3+1-.16=3.84" #5 @12 3 (12) + 1= 4(2) =8 C= 7.44 STEP (D #5 @ 16 5,24(12) + 1= 4(2) = 8 L= 9.58-33 = 9.25 9.58(12) +1 = 8 sets (2) #5@16 1= (5,24-,33+2) 2 = 13,82 Set.

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GRG

DATE 5/2017 RW#6 Rebar Quantity

Section 2 STA 13+45-14+00 L-55 H=16' HAUS=16:41 base - 1,68 1 + bons +4018 (16.41)(12), 1= 11 L=54.67 (8.2) 12) + 1= 6 8,2(12) = 8+1=970T=15 L=54,67 2) sborn #5018 3 Eben #6@10"x15 Por8' (P) about 706" 54.67(12) + 1= 55 L=16.41 -,16+1.66-25+1.68 1-3.5-,33 = 22,51 4a) short abour #7e6 70t = 55 L= 5.75+1.66-,25+1.68+3,5-,33=12,01 6 #5 @12 / Tot= 55 L- 16.41-, 16+1.66-, 25=17.66 0 #5 tot 4 C= 54.67 54.67(12) +1=110 L= 7,25-1.68.+1.5 -16=6.91 2 6505=6 (8) # 5@2 (7.25-1.72) 12 + 1 = 6(2)=12 L=5467 @ d bout + 9@ 3=6" TOT=110 L= 7.25-1.168+45 (.0625)-,16 L= 8,19 #505=6 Tot=110 L=3,5+1-,16=4.34 0 #5 C12 3.5(12/4 /= 4(2)=8 L= 54.67

G RC 06-ZHT201 RW#6 Rebour Quanting DATE 5/20/2 11 HEAVEN Section 3 STA 14+00-14+34.78 L=34.78 H=18 HAUG=16.55 base=1168 16.55(12) + 1= 12 L= 34.45 @ Sbaro #5@18 (8.27)(12)+1=6 8.27(12)+1=9 toT=15 #50 12 L=34,45 (3) e bare \$ 6 @ 10" x 15 for 8' Shown in segment 1 (9) c bours #7 @5 34.45 (12) +1= 42 L= 16.55-, 16+1.75-, 25+1.68+4-,33 = 23.24 (Ya) short abano #705 to+=42 L= 5.83 +1.75 -, 25 + 1.68 + 4-,33 = 1/2.68 5 #5 @ 12 35 = TOT L= 16.55 -16+1.75-,25 = 17.89 6) #5 tot4 L= 34,45 (1) +5 @ S = 5' 34,45(12) +1 = 83 C= 8-1.68+1.5-,16 = 7,166 (8) #5@ 12 (8-1.68) 12 1= 7(2)=14 L= 34,45 9 8 bars #8 @5" Tot = 83 (= 8-1.68+15(10625)-16=8.97 (D) #5@s=5" To +=83 L=4+1-,16=4.84 1) #5012 4(12)+1=5(2)=10 L= 34,45

Rebon Quantity Street Light Federal RW# 4 2 #6 5/2012

$$\int_{-2.75}^{2.5} L = 6.83 \qquad \int_{-3.75}^{2.5} L = 8.5$$

1 total = 26,83

Fresno Street Retaining Wall # 2,4,6

Minor Concrete Gutter

97.55
07.55
142.0
(Lineal Feet)

	Footing Volume	Volume	Stem Volume	olume	Total Volume	olume
Wall	ft ³	CYD	æ.	CYD	±.	CYD
۷	6 504 7	3400	250			1
-	6,501./	240.8	4,973.4	184.2	11,475.1	425.0
2	6,484.8	240.2	4,739.7	175.5	11.224.6	4157
ω	1,654.9	61.3	1.735.7	64.3	3 390 6	1356
4	1,602.4	59.3	1.701 1	63.0	3 303 5	300
л	1 0100	100		1000	0,000.0	122.7
0	1,819.9	67.4	2,007.8	74.4	3,827.7	141.8
σ.	2,038.1	75.5	2,327.4	86.2	4,365.5	161.7
1,3,5	9,976.5	369.5	8,717.0	322.9	18 693 5	603 4
	10 1010					001

Concrete Quantities
Fresno St. Retaining Walls
06-2HT201

	1040	1500	1500	1440	1300	1360	1320	1280	1240	1199.38	=	Station 1				Retain			1540	1500	1440	1380	1360	1340	1320	1280	1240	1200	#	Station 1		T
	13/4.39	1540	+	+	+	-	+	+	<u> </u>	38 1240	#	1 1 Station 2				Retaining Wall 2			0 1575.84	0 1540		-	\vdash					0 1240	#	on 1 Station 2		-
	01.		1				4		0 2	0		n 2 Section							.84 10		00 8				Tin			40		200		-
	12	14	14	16	16	14	14	14	_	_	_	ion Design H											6			ω	+	_	\Box	Section Des		
	L		L	_						10 27	#		,	1				-	12 25	14 25	14 26			14 20		_		10	_	Design H Ft	7	
	259.50 27			╁	H		Н		-	50		Ftg Elev M	_	General	Conoral			H	+	+	261.66 2	+	\dashv	\dashv	266.00 2	+	+	272 50	\dashv	Ftg Elev 1		Genera
	271.20 2	272.78 2	_		-		\vdash	-	+	282.55 2	-	Wall 1 V		General Information	1			F	+	+	+	\dashv	+	+	279.92	+	282.06	30 08	+	Wall 1	-	General Information
	270.03	271.20	72.78	75.14	77.50	78.26	278.91	79.46	80.48	281 51	#	Top of Wall 2		on				100.01	269 92	271 12	272 72	275.12	277.52	278.32	279.12	279 92	281 16	202 00	⇒	Wall 2		tion
	8.33	9.58	9.58	10.75	10.75	9.58	9.58	9.58	8.33	7 58	#	€						0.00	22.0	9.58	978	10.75	10.75	9 28	9.58	0.00	7.00	1 10	# \$	٤		
	1.50	1.67	1.67	1.67	1.67	1.67	1.67	1 67	150	22	# .	п						1.00	7.07	1 67	1.67	1.67	1.67	1 67	1 67	1.00	1.33	,	# -	п		
	2.00	2.00	2.00	2.00	2.00	2.00	2.00	200	200	000	#2 J	X DV						2.00	3 5	2 5	3 1.0	2.00	200	3 1.00	2.00	2.00	0.89	-	ney	5		
	34.59	40 00	60 00	60.00	20 00	20.00	20.00	40.00	40.02	3	t digit	Section						35.84	40.00	00.00	00.00	20.00	20.00	20.00	40.00	40.00	40.00	-	Length	Section		
	,	× >	κ :	×	>	< >	< >	×			Degilli	Step at							×	×	×		×	×	×	×			Begin?			
3	000	20 70	1284	21.50	000	14.38	14 38	15.17	0.00	=	volulie	Step						0.00	25.49	6.42	28.70	0.00	9.58	19.17	20.83	15.17	0.00	π,	V0			
0.00	34 50	44.00	60.00	80.00	10.00	24.00	40.00	40.00	39.62	п	Le			Footi				35.84	41.00	60.00	60.00	19.00	21.00	20.00			39.00	Ħ	e Length	Key		Foot
09.10	60 18	00.00	120.00	130.00	30.00	40.00	80.00	80.00	35.22	T,	8			Footing Volume				71.68		120.00	H	┝	42.00	H	\vdash	-		₽ ³	%	Key		Footing Volume
+32.20	+	+	+	+	╀	+	╀	\vdash	\vdash	-	6		-							H	-	\vdash	-	H	0 640.17		7 403.43	ft ³		Footing		
6,484.8	+	+	+	+	8 3/6.46	╁	-		\vdash	-	ne Volume	_	Total				6,501.7			152.0					17 740.99		-			Ţ	Total	
.8	\dagger		T	+	+	11.02	╁		Н	ft	-	ng Average		-			1.7												-	_	2	
-		H				-	30 12		\mathbb{H}				-											11.85	7	+	8.68			Average 1		
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16.81					17.96		\vdash	-	16.10			Bottom S	orem volume				ŀ	+	+	+	+	+	+	+	+	+	16.34	+		Bottom	Stem Volume	
11.54 3	13.26 5	12.98 7	14.48 8	13.83 2		-	\vdash	-	9.60	-		Stem					H	+	+	+	+	+	+	+	+	+	ň	1	4	Stem		
399.20 9 4,739.7 11			868.65 2		-	-	+	+	389.99	₹.	Volume	Stem					ŀ	+	+	+	+	+	+	+	533.26	461 36	100 00	#3	Volume	Stem		
900.59	1273.23	1872.14	2087.30	673.61	673.91	645.31	1241.40	1022.19	834.89	#3	Total Volume						11 475 1	052.58	1303 13	1862 26	2154 78	674 78	673 17	674 76	1274 26	1056 22	20000	43	Total Volume			
33.36 415.7	47.16	69.34	77.31	24.95	24.96	23.90	45.98	37 86	30.92	CYD	lume					120.0	425.0	35 33	40.00	68 07	70.81	24 99	24.99	24 00	47 19	30.41	CYD	Ordino	olume			

1400	1345	1007.20	1337 23	#	Station 1		Retaining Wall 6		1360	1332.96	7	Station 1			C HPAA GIIIIIPAN		1200	1256	1180	1	Station 1		Ketaining Wall 4			1255	1160	1117 46	=	Station 1		
1434.78	1400	1040	1345	#	Station 2		Wall 6		1430.21	1360	=	Station 2			CHEAA	W. III	1200	1266	1256	1100	Station 2		Wall 4			1263.83	1255	1160		Station 2		
သ	2) _	۷		Section				2)		Section						3 N	ــاد		Section					ω	2		\neg	Section		
18	16	14	44	# ,	Design H				16	12	ft	Design H					12	3 2	à «		Design H					13	100	»	*			
270.42	270.42	2/4.00	274.00	#	Bottom Ftg Elev	Gene			270.50	273.75	7	Ftg Elev	Bottom	Gen			2/4.00	2/6.11	278.38	-	Ftg	Gen			11.01.0	273 75	276.00	370 50	# 104		Ger	Cor
289.59	289.42	289.40	200 40	#	Top of Wall 1	General Information			288.14	287.60	#	Wall 1	Top of	General Information			200.10	288.10	288.10	1	Top of Wall 1	General Information			101.01	287 62	287.81	707 700	#		General Information	and Infant
289.70	289.59	289.42	300 10	#	Top of Wall 2	ation			289.54	288.14	ft	Wall 2	Top of	nation			288.10	288.10	288.10	ī	Top of Wall 2	nation			100.00	287 60	287.62	70 700	7 IIDAA	Top of	nation	- diam
12.00	10.75	9.58	2	# .	€				10.75	8.33	ft	8					8.33	7.58	7.25	7	8				0.00	8 33	7.58	127	AA a	Ę		
1.67	1.67	1.67	-		п				1.67	1.50	ft	П					1.50	1.33	1.33	п	п				1.00	1.00	1.33	=	, 7	1		
2.00	2.00	2.00	=	42	Xev				2.00	2.00	ft ²	Key					2.00	0.89	0.89	π,	Key				2.00	3 00	0.89	2 =	Ney	•		
34.78	55.00	7.77	п	1000	Section				70.21	27.04	ft	Length	Section				10.00	76.00	56.00	#	Section Length				0.03	90.00	42.54	п	Length	Section		
,	×	111.00		Dog.	Step at				×			Begin?	Step at				×	×			Step at Begin?				×	×			Begin?	Step at		
0.00	34.31	0.00	п	Acidine	Step				27.07	0.00	ft ³	Volume	Step				16.00	16.46	0.00	ft°	Step				17.06	10.13	0.00	n,	Volume	Step		
34.78	56.00	6.77	7	Lengui	Key	Footing Volume			71.21	26.04	th the	Length	Kev	Footing			11.00	76.00	55.00	ft	Key Length	Footing			9.83	95.00	41.54	#	Length	Key	Footing	
69.56	112 00	13.54	Ħ,	Animica	Key	Volume			142.42	52.08	ft ³	Volume	Kev	Footing Volume			22.00	67.56	48.89	ft ³	Key Volume	Footing Volume			19.66	84.44	36.92	ft	Volume	Key	Footing Volume	
696.99	987 39	124.35	ft	Volulle	Footing				1260.45	337.86	ft ³	Volume	Footing				124.95	766.52	539.98	ft ³	Footing Volume				110.33	958.15	410.19	T.	Volume	Footing		
766.55	1133 70	137.89	ft	Volume	Total Footing			1,819.9	1429.94	389.94	ft ³	Volume	Total			1,602.4	162.95	850.54	588.87	ft3	Total Footing Volume			1,004.0	147.05	1060.72	447.12	ft ³	Volume	Footing		
17.56	17 42	13.74	ft	Keal H	Average				16.67	12.62	#	Real H	Average				12.60	10.66	8.39	ft	Average Real H				12.36	10.39	8.03	ft	Real H	Average		
13 2	13	12	in	INICK		S			12	12	in	Thick		S			12	12	12	in	Top Thick	8			12	12	12	in	Thick	Тор	"	
21.78	20.71	18.87	in	Inick	Bottom	Stem Volume			20.34	18.31	in	Thick	Bottom	Stem Volume			18.30	17.33	16.20	ā	Bottom	Stem Volume			18.18	17.19	16.01	5	Thick	Bottom	Stem Volume	
25.73	22 72	17 67	ft ²	Area	The same of	е			22.46	15.94	ft ²	Area	Ctom	ie .			15.91	13.03	9.86	ft ²	Stem	ne			15.54	12.63	9.37	ft ²	Area	Stem	ne	
884 74	1305 34	137.32	ft ³	Volume	Stem			2,007.8	1576.87	430 96	ft ³	Volume	Ctom			1,701.1	159.08	990.08	551.96	ft3	Stem			1,/35./	137.24	1200.02	398.46	ft ³	Volume	Stem		
1651 30	2420.02	275 21	ft ³	lotal V				3,827.7	3006.81	820 91	ft ³	Total V				3,303.5	322.03	1840.62	1140.83	Ħ3	Total			3,390.6	284.30	2260.75	845.57	ft ³	Total			THE REAL PROPERTY.
90.33	00.33	10 19	CYD	Iotal Volume				141.8	111.36	30.40	CVD	Total Volume				122.4	11.93	68.17	42.25	CYD	Total Volume			125.6			П	CYD	Total Volume			The state of the s

SUMMARY-STRUCTURE EXCAVATION AND STRUCTURE BACKFILL

DS-D-0022 (REV. 02/11/08)

		Estin	nating Section	to forward to F	RE Pending File	e	
	S.	TRUCTURE		BRIDGE NUMBER	DATE	CALCUI	LATED BY
	R\	N 2, 4, 6			5/14/2012	S. MOI	RIMOTO
DISTRICT	COUNTY	ROUTE	EA NUMBER				KED BY
6			06-2HT201	<u> </u>		G.RGL	ITIERREZ
<u></u>		STRUCTURE	EXCAVATION	STRUCTUR	E BACKELLI	PERVIOUS BAC	KELL MATER
LOCAT	ION	ESTIMATE	CHECK	ESTIMATE	CHECK	ESTIMATE	CHEC
RW 2,		2641	2671	1687	1708		
					· · · · · · · · · · · · · · · · · · ·		
							·
							·
-							·
	·.	74.77		·			
		·					
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TOTAL	. CY	2641	2671	1687	1708	0	0

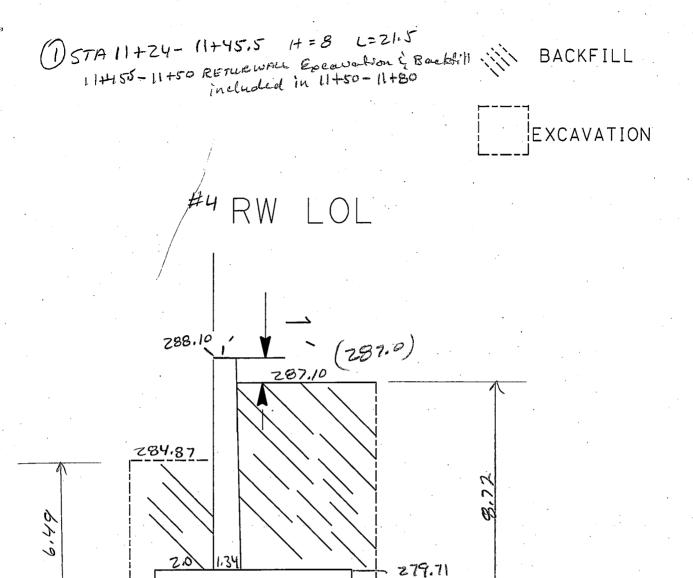
DATE 5/2012 SURPER EXCANATION & Barckfill
DS-D 18 (REV. 283)

(D) STA 11+24 - 11+15.5 L = 21.5 STA 11+45.5- 14+50 quantity with next section Due to Return wall. Excau [(3)(6,49)+(6,5)(8,72)+(1,33)(.67) 21,5 = 1468,90 ft3 = 54,40 Cuyd. Backlill= [(2)(1)(1.33)+(3)(5,16)+(4.16)(7.39)] 21.5 = 10 50.97 PF = 38,92 Cayel (2) STA 11+50 - 11+80 L=30 Excav: 1 (3.0)(4.78) + (5.5)(8.62) + (33)(.67)]30' = 1879, 23 6+3 = 69,60 anyd Backfill= [(2)(1)(1.33)+ (3.0)(3.45)+ (4.16)(7.29)] 30 = 1300.0921 = 48,15 au yal. 3 STA 11+80-12+00 L=20 Excav ([6.25/ 6.24) + (6.25) (10.88) + (6.33) (.67) [20 - 1784.67 8+3 = 66,09 Cuyal. Text & file 2) (1) (1,32) + (3,25) (4.91) + (4.81) (9.56) 7 20' = 1292,0293=47,85 anyd. (4) STA 12+00 - 12+5610 L= 56 Excau: [(3.25)(6.71)+(10.25)(17.08)+(8.5)(10.89)+2(1.33)(67)](56) = 16308,58 A17 = 604,02 P. yal Backfill: 5 (1)(133)+(3,25)(5,38)+(5)(1,53)+(8,84)(9,28) +(2,25)(3,09)+(3,81)(9,56)+(1)(1,33)](56) 9523,55 A = 315,68 Chyd.

OSP 07 104942 ---

```
BY GRG RW#Z, 4 26
DATE 5/2012 Subject Excavation & Back PM)
(5) STA 12+56-12+66 L- 10
 Exeau: [(3,25)(0.71)+(9.75)(17.08)+(10.5)(13.0) +2(1.33)(62)]10'
     = 3266.19 C+2 = 120,97 Cm yd.
Backsill (1) 1,33)+(3,25)(5,38)+(4,5)(1,33)+(8,34)(9,28)
         +(2,75)(5,2)+(6,22)(11,67)+()(1,33)] 10
         = 1904,12 P+3 = 70,52 cm yel.
(6) STA 12+66-12+80 (=14) 
Exeau 2 (3, 25)(6.71)+(6, 25)(10.36) +(1,33)(.67) J14
         1224, 28843 = 45,34 anyd.
BACKFILL [Z(1)(1,33) + (3,25)(5,38) + (4,84)(9.03)] 14
         - 893,90 Cy3 = 33,10 avyd.
(9) STA 12+80-13, 37, 23 L=57, 23
Excap: [(3,25)(6,08)+(7,75)(11,91)+(2)(0) 57,23
     = 6701,77613 = 2 48.21 Cuyali
BACK FILL: [Ca)(1)(1.33) +(3.75)(4.75)+(6.27)(10.58)] 57.23
      = 4968.08 Pg = 184.00 Cuyd.
(8) 574 13,37,23 - 13+60 L= 22.77
Execus ( [(3,75 × 6,08)+ (9,5)(14,6)+ (3,5)(5,10)+ (2)(2)(1) ] 22,77
     = 5339, 22 fe3 = 197,74 Cuydi
Backfill=[(1)(133)+(3,75)(4,75)+(2,75)(1,33)+(8.02)(10,83)
         4(3)(1,01) + (9(3,45) + (1)(1,66)] (22,77)
       = 3310,68 Ly3 = 122,61 Cu yd.
```

2 KW#2,496 DATE 5/2012 SUBJECT Executation & Backlill
DS-D 18 (NEW 3-87) (B) STA 15+20-15+74,59 L=54,59 Examo ! [(3,25 X7,44) +(6,25) (0,5) +(1,33)(67)] 54,59 = 4951.10 2+3 = 183.37 cm yol. Rockfill: [(2)(1)(1.33)+ (3.25)(6,11)+ (4.84)(9.17)] 54.59 = 3652.08 (3)= 135, 26 Caypl. Summary Execution: 2670,7 Cuyd J Backell! 1707.62 Caryd.



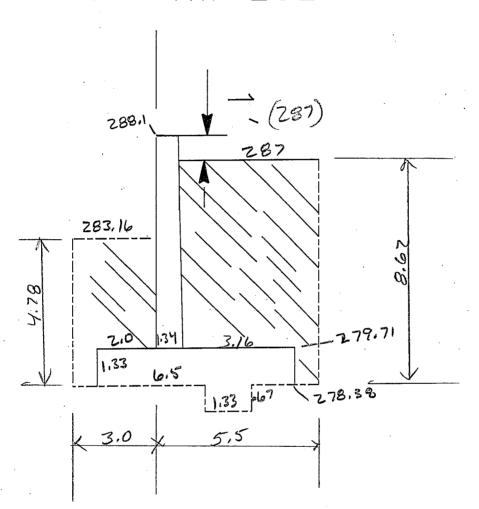
278.38

6.5





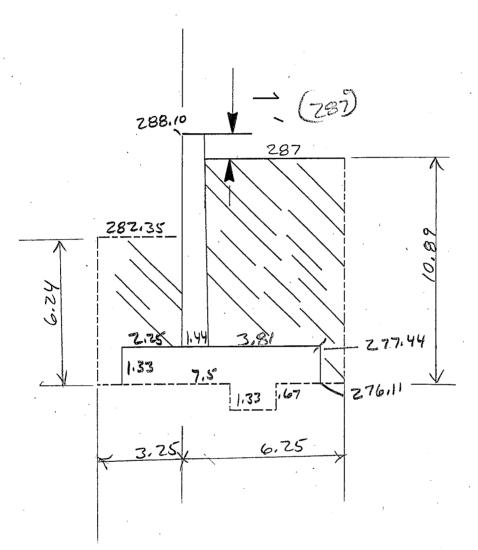
#4 RW LOL



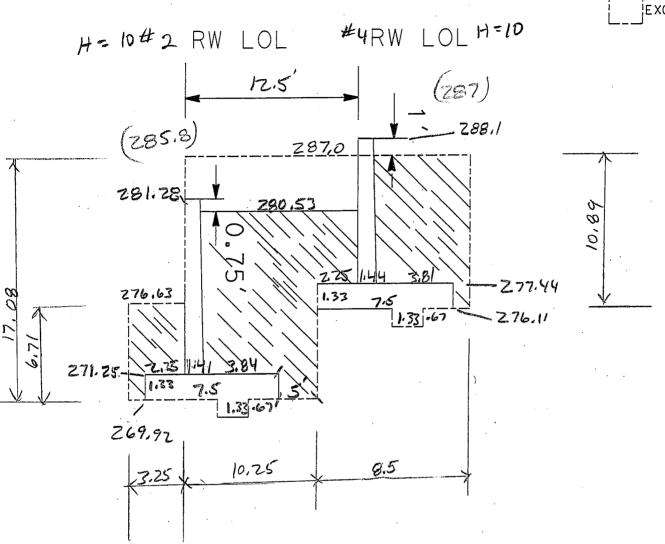


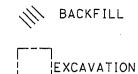


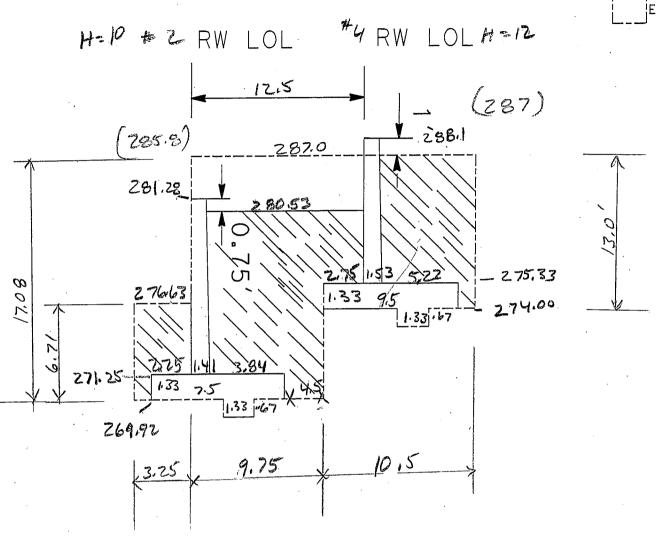
#4 RW LOL









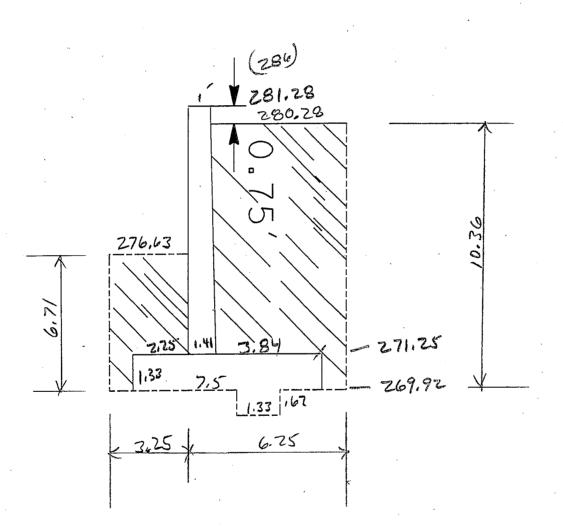


@STA 12+66 - 12+80 H=10 L=14"



RW LOL#Z

EXCAVATION



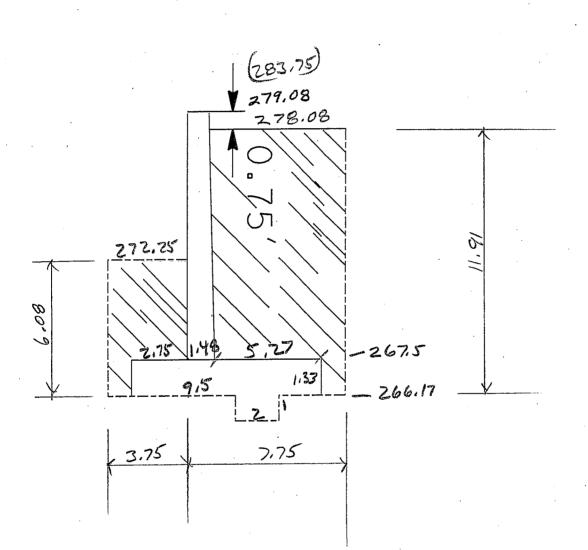
9 STA 12+80-13+37.23

H=12 C= 57.23

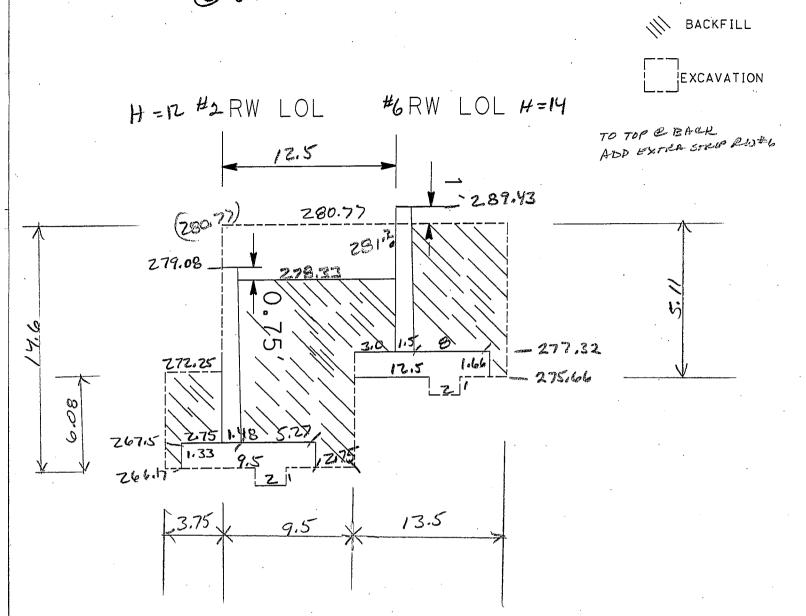


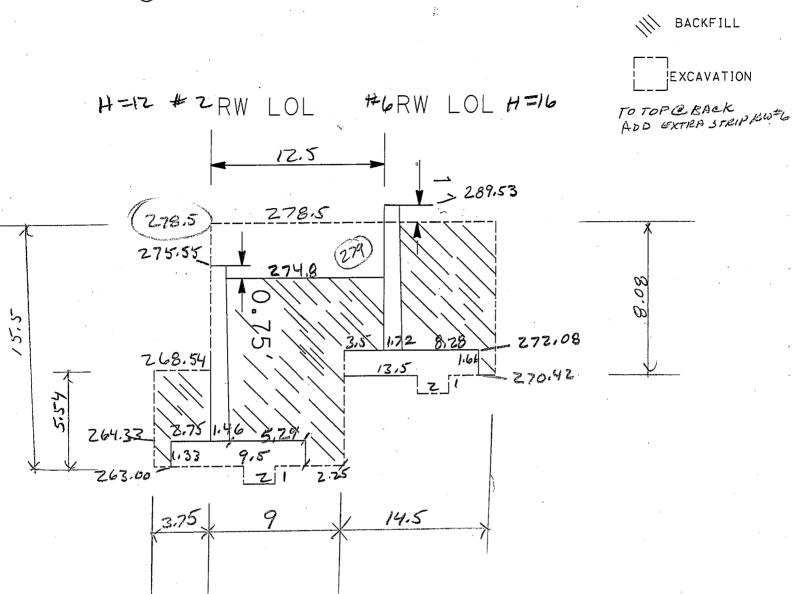


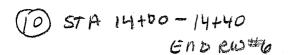
#2 RW LOL

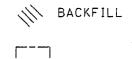


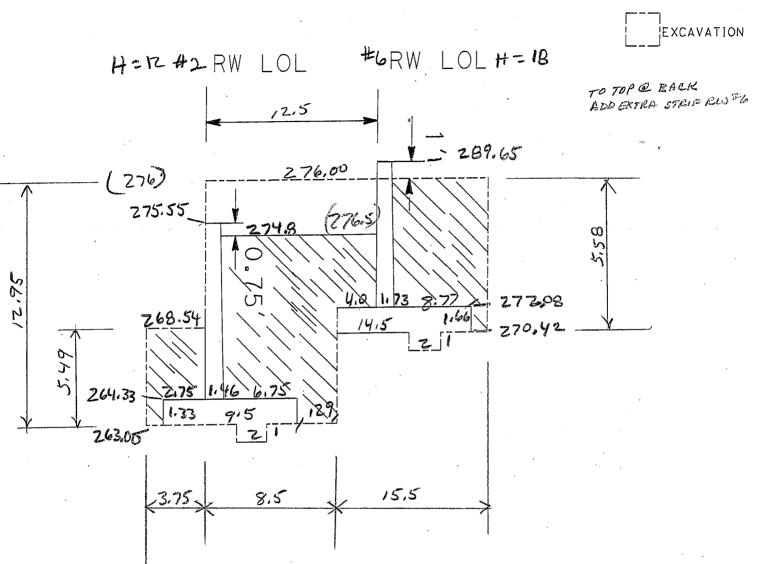
(B) STA 13+37.23-13+60 L=22.77









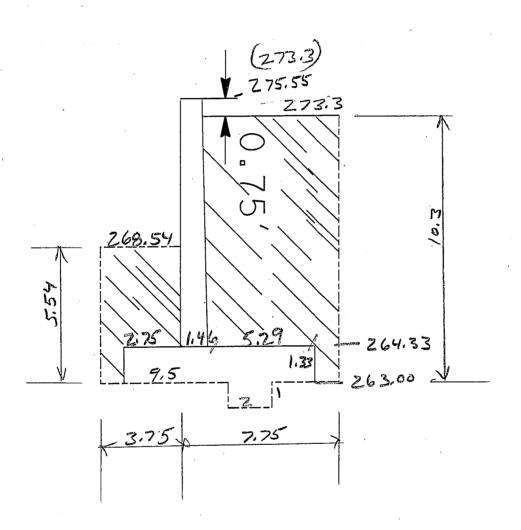


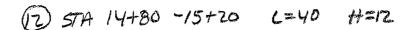
1 STA 14+40-14+80 -6-40 H=12

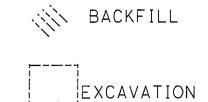


#2 RW LOL

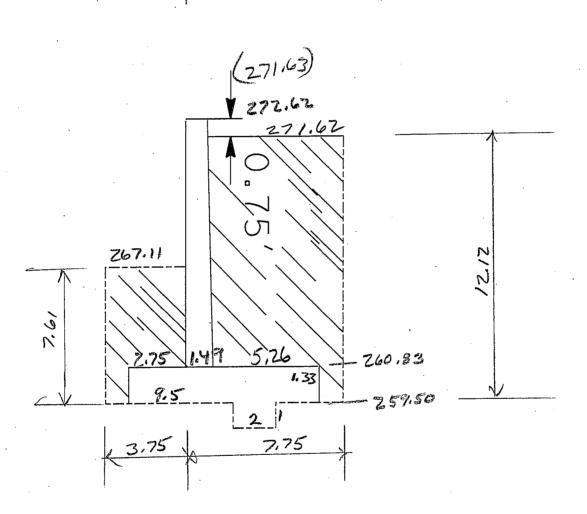
EXCAVATION

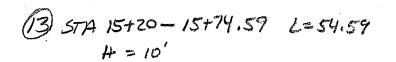






#2 RW LOL

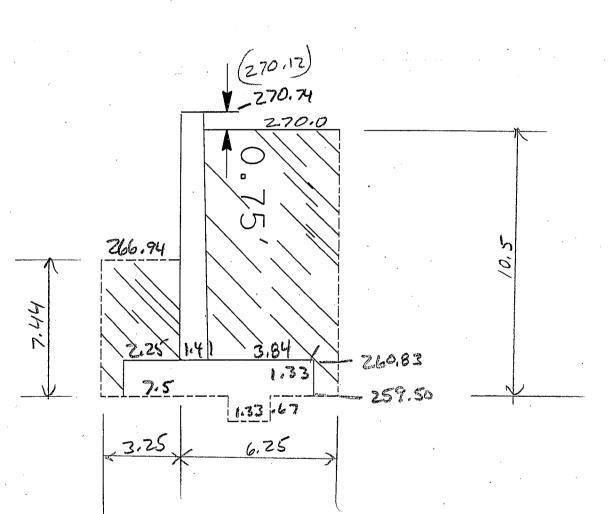








#2 RW LOL



DC-CEM-4801 (OLD HC-52 REV. 11/92) 7541-3520		SHEET / OF /
	Concrete Quantity	FILE NO
	100 PC W # 4 4 # 4 # 6	SEGREGATION YES L. NO
	G-RG	PAS/2012
		DATE
TO ALL A GO I		
Pedistal Concret	2 .	
Y	4	
= 12(2)(1.91)(1.91)	+ (2)(1,91)] 5' = 37.3	4 (ZPast) = 74.68
= 2,76 cu yd.		
- 4,16 tu ga.		

Existing Retaining Wall Dimensions and Removal Quantities

₪

22 28 16 14 12 10 8 **x**

5.17 6.17 7.17 7.17 8.00 9.00 110.00 12.00

1.67 2.00 2.33 2.67 3.00 3.33 3.33 3.67

3.50 4.17 4.83 5.33 6.00 6.67 7.33

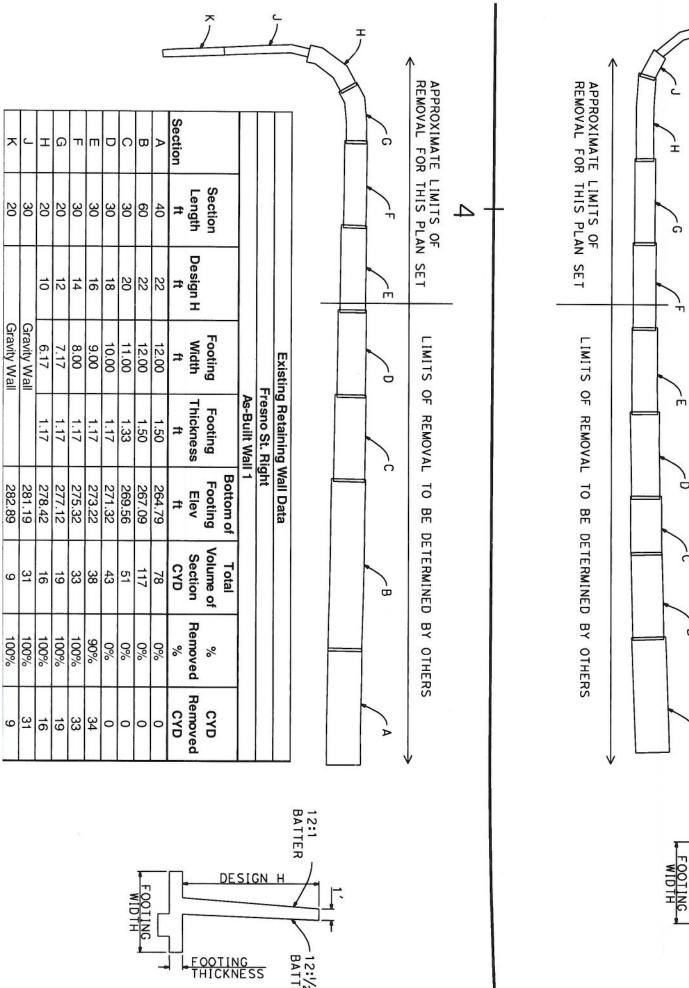
1.17 1.17 1.17 1.17 1.17 1.17 1.33

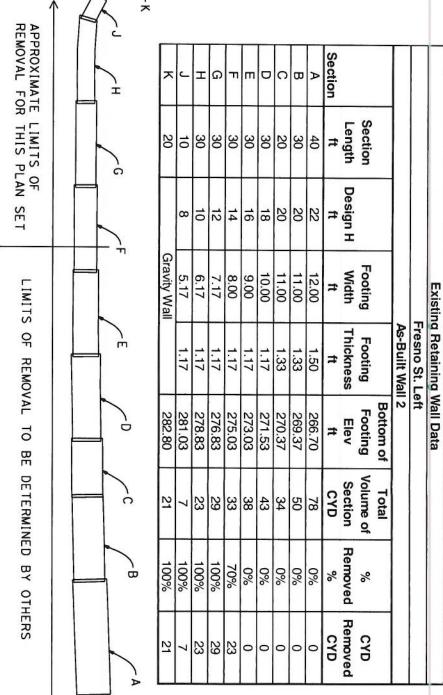
ے	I	G	П	m	0	O	В	A	Section	Wall 2 (Fr						د	I	a	т	т	0	ဂ	В	Þ	Section	Wall 1 (Fr		
791.13	761.13	731.13	701.13	671.13	641.13	621.13	591.13	551.13	Start	Wall 2 (Fresno St. Left)															Start	Wall 1 (Fresno St. Right)		
801.13	791.13	761.13	731.13	701.13	671.13	641.13	621.13	591.13	End																End	ght)		
10	30	30	30	30	30	20	30	40							20	30	20	20	30	30	30	30	60	40				
8	10	12	14	16	18	20	20	22	I								10	12	14	16	18	20	22	22	I			
1.67	2.00	2.33	2.67	3.00	3.33	3.67	3.67	4.00	0								2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.00	C			
3.50	4.17	4.83	5.33	6.00	6.67	7.33	7.33	8.00	В								4.17	4.83	5.33	6.00	6.67	7.33	8.00	8.00	В			
5.17	6.17	7.17	8.00	9.00	10.00	11.00	11.00	12.00	W								6.17	7.17	8.00	9.00	10.00	11.00	12.00	12.00	W			
1.17	1.17	1.17	1.17	1.17	1.17	1.33	1.33	1.50	F								1.17	1.17	1.17	1.17	1.17	1.33	1.50	1.50	П			
281.03	278.83	276.83	275.03	273.03	271.53	270.37	269.37	266.70	Ħ	Footing	Bottom		120		285.00	283.30	280.53	279.23	277.43	275.33	273.43	271.67	269.20	266.90	Ħ	Footing	Bottom	
281.03	278.83	276.83	275.03	273.03	271.53	270.37	269.37	266.70	ft	on	Conversi	-2.11			282.89	281.19	278.42	277.12	275.32	273.22	271.32	269.56	267.09	264.79	ft	on	Conversi	-2.11
×	×	×	×	×	×	×	×	×		End	Step At					×	×	×	×	×	×	×	×	×		End	Step At	
9.15	11.37	12.33	12.90	16.00	13.50	11.60	11.00	29.37	ft ³	Volume	Step						17.08	8.02	12.90	16.80	17.10	17.60	27.17	27.60	Ħ ³	Volume	Step	
10	30	30	30	30	30	20	30	41	Ħ	Length	Key	Footing					20	20	30	30	30	30	60	41	ft	Length	Key	Footing
8.9	26.7	60.0	60.0	60.0	60.0	40.0	60.0	82.0	ft ³	Volume	Key	ting					17.8	40.0	60.0	60.0	60.0	60.0	120.0	82.0	ft ³	Volume	Key	ting
60.3	215.8	250.8	280.0	315.0	350.0	293.3	440.0	720.0	ft3	Volume	Footing				No. of the last of		143.9	167.2	280.0	315.0	350.0	440.0	1080.0	720.0	ft3	Volume	Footing	
78.3	253.9	323.2	352.9	391.0	423.5	344.9	511.0	831.4	ft ³	Total	Footing						178.8	215.2	352.9	391.8	427.1	517.6	1227.2	829.6	ft ³	Total	Footing	
13	12	12	12	12	12	12	12	12	in	Thick	Top						12	12	12	12	12	12	12	12	in	Thick	Top	
17.0	17.0	18.0	19.0	20.0	21.0	22.0	22.0	23.0	in	Thick	Bottom	Stem					17.0	18.0	19.0	20.0	21.0	22.0	23.0	23.0	in	Thick	Bottom	Stem
100.0	362.5	450.0	542.5	640.0	742.5	566.7	850.0	1283.3	ft ³	Volume	Stem						241.7	300.0	542.5	640.0	742.5	850.0	1925.0	1283.3	Ħ ³	Volume	Stem	
178	616	773	895	1031	1166	912	1361	2115	ft ³	То					248	846	420	515	895	1032	1170	1368	3152	2113	H ³	То		
7	23	29	33	38	43	34	50	78	CYD	Total					9	31	16	19	33	38	43	51	117	78	CYD	Total		
100%	100%	100%	70%	%0	%0	0%	%0	0%	%	Rem				Total =	100%	100%	100%	100%	100%	90%	0%	0%	0%	0%	%	Rem		
7	23	29	23	0	0	0	0	0	CYD	Removal				143	9	31	16	19	33	34	0	0	0	0	CYD	Removal		

801.13

801.13

20

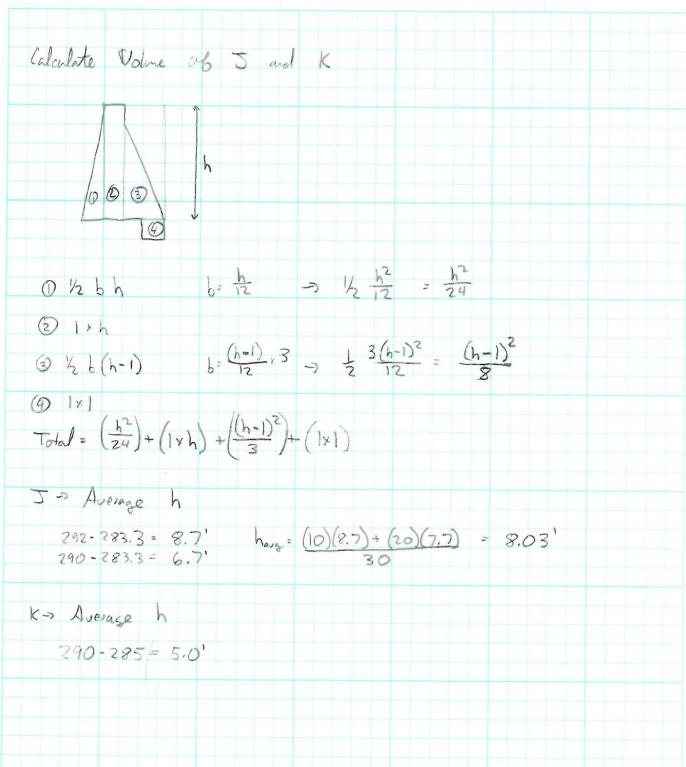




12:1 -BATTER

DESIGN H

- FOOTING THICKNESS



POSTED B

DATE

POSTED TO

QUANTITY CALCULATIONS

DC-CEM-4801 (OLD HC-52 REV 11/92) 7541-3520-0

ITEM RW 1,2,3,4,5,6

LOCATION Bidge Renoval

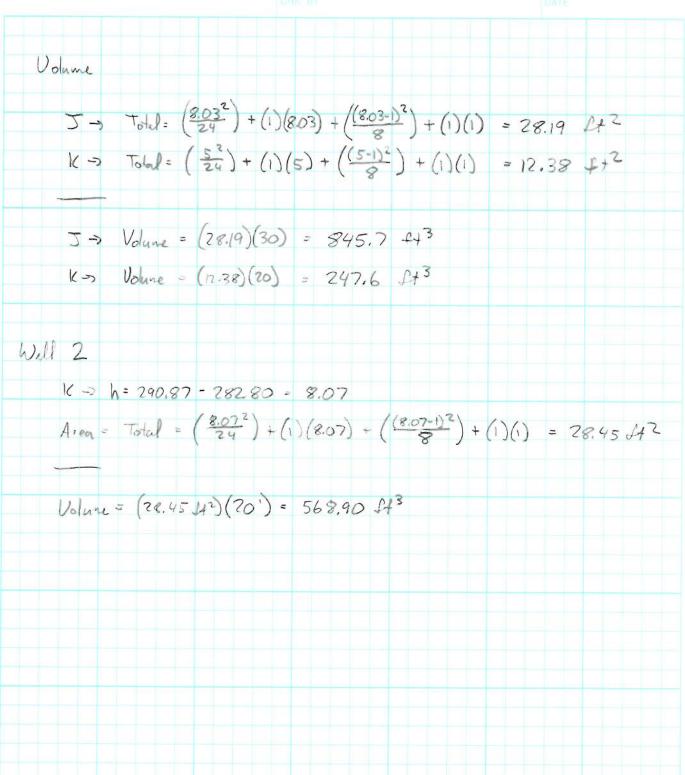
GALC BY RMLLO
CHIK BY

SHEET Z OF Z

FILE NO

DATE 5/25/12

DATE



POSTED BY

DATE

POSTED TO